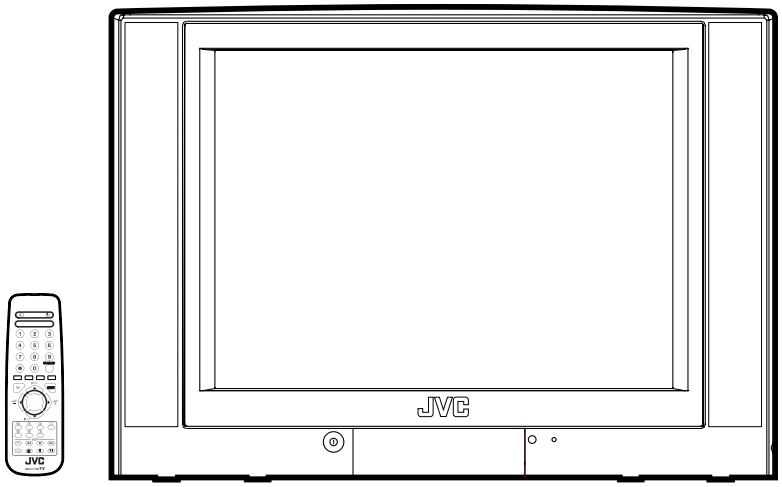
JVC

SERVICE MANUAL

COLOUR TELEVISION

AV-21KT1BEF/A, /B, AV-21KT1SEF/A, /B,
AV-21KT1BNF/A, /B, AV-21KT1SNF/A, /B,
AV-21KT1BPF/A, /B, AV-21KT1SPF/A, /B



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No.52134
2003/10

SPECIFICATION

Item		Content		
		AV-21KT1BEF AV-21KT1SEF	**AV-21KT1BNF AV-21KT1SNF**	**AV-21KT1BPF AV-21KT1SPF**
Dimensions (W × H × D)		61cm × 45cm × 48cm		
Mass		21kg		
TV RF System		B/G, D/K, K1	B/G	B/G, L/L'
Colour System	TV Mode	PAL / SECAM	PAL	PAL / SECAM
	Video Mode	PAL / SECAM / NTSC 3.58 / NTSC 4.43	PAL / NTSC 3.58 / NTSC 4.43	PAL / SECAM / NTSC 3.58 / NTSC 4.43
Sound System		NICAM / A2 (Germany system)		
Teletext System		FLOF (Fastext) / TOP (German system)		
Number of CH memory position		100ch		
Receiving Frequency	VHF Low	46.25MHz ~ 168.25MHz		
	VHF High	175.25MHz ~ 463.25MHz		
	UHF	471.25MHz ~ 863.25MHz		
	CATV	BG : S01-S41 & S75-S79 DK : S01-S41	BG : S01-S41 & S75-S79	BG : S01-S41 & S75-S79 L : S01-S41 & S75-S77
Intermediate Frequency	VIF SIF	38.9MHz (B/G, D/K, L) / 33.9MHz (L') 33.4MHz (5.5MHz:B/G) / 32.9MHz (6.0MHz:D/K) / 32.4MHz (6.5MHz:L) / 40.4MHz (6.5MHz:L')		
Colour Sub Carrier Frequency	PAL SECAM NTSC	4.43MHz 4.40625MHz / 4.25MHz 3.58MHz / 4.43MHz		
Power Input		AC220V ~ AC240V, 50Hz		
Power Consumption		85W(Max), 4W(Standby)		
Aerial Input Terminal		75Ω unbalanced, coaxial		
Picture Tube		Visible size : 51cm (Measured diagonally)		
High Voltage		25.3kV		
Speaker		5.7cm × 16cm oval type × 2		
Audio Output		6.5W + 6.5W		
Input	Video S-Video Audio (L/R)	1V(p-p) 75Ω Y : 1V(p-p) positive C : 0.286V(p-p) 500mV(rms) (-4dBs), High impedance (RCA pin jack × 2)		
Output	Video Audio (L/R)	1V(p-p) 75Ω 500mV(rms), Low impedance		
Input Terminal	Front Side Rear Side	F-AV (Video / Audio) AV-1 (Video / Audio / RGB) AV-2 (Video / Audio / RGB) : AV-2S (Video / Audio / RGB / S-VIDEO)		
Output Terminal	Right Side Rear Side	Headphone Jack (Stereo mini jack Ø3.5mm × 1) AV-1 (Video / Audio) AV-2 (Video / Audio)		
Remote Control Unit		VE-30017763 (RM-C1100), (AA/R06 dry battery × 2)		

Design & specifications are subject to change without notice.

SECTION 1
PRECAUTION

1.1 SAFETY PRECAUTIONS

(1) The design of this product contains special hardware, many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.

(2) Alterations of the design or circuitry of the products should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.

(3) Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the parts list of Service manual. **Electrical components having such features are identified by shading on the schematics and by (⚠) on the parts list in Service manual**. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the parts list of Service manual may cause shock, fire, or other hazards.

(4) **Don't short between the LIVE side ground and ISOLATED (NEUTRAL) side ground or EARTH side ground when repairing.**
Some model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE : (⊥) side GND, the ISOLATED (NEUTRAL) : (⏚) side GND and EARTH : (⏚) side GND.
Don't short between the LIVE side GND and ISOLATED (NEUTRAL) side GND or EARTH side GND and never measure the LIVE side GND and ISOLATED (NEUTRAL) side GND or EARTH side GND at the same time with a measuring apparatus (oscilloscope etc.). If above note will not be kept, a fuse or any parts will be broken.

(5) If any repair has been made to the chassis, it is recommended that the B1 setting should be checked or adjusted (See B1 POWER SUPPLY check).

(6) The high voltage applied to the picture tube must conform with that specified in Service manual. Excessive high voltage can cause an increase in X-Ray emission, arcing and possible component damage, therefore operation under excessive high voltage conditions should be kept to a minimum, or should be prevented. If severe arcing occurs, remove the AC power immediately and determine the cause by visual inspection (incorrect installation, cracked or melted high voltage harness, poor soldering, etc.). To maintain the proper minimum level of soft X-Ray emission, components in the high voltage circuitry including the picture tube must be the exact replacements or alternatives approved by the manufacturer of the complete product.

(7) Do not check high voltage by drawing an arc. Use a high voltage meter or a high voltage probe with a VTVM. Discharge the picture tube before attempting meter connection, by connecting a clip lead to the ground frame and connecting the other end of the lead through a 10kΩ 2W resistor to the anode button.

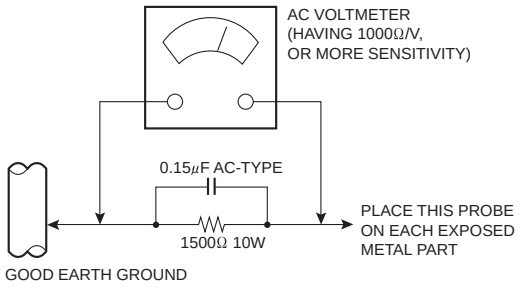
(8) When service is required, observe the original lead dress. Extra precaution should be given to assure correct lead dress in the high voltage circuit area. Where a short circuit has occurred, those components that indicate evidence of overheating should be replaced. Always use the manufacturer's replacement components.

(9) **Isolation Check (Safety for Electrical Shock Hazard)**
After re-assembling the product, always perform an isolation check on the exposed metal parts of the cabinet (antenna terminals, video/audio input and output terminals, Control knobs, metal cabinet, screw heads, earphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.

a) **Dielectric Strength Test**
The isolation between the AC primary circuit and all metal parts exposed to the user, particularly any exposed metal part having a return path to the chassis should withstand a voltage of 3000V AC (r.m.s.) for a period of one second. (. . . Withstand a voltage of 1100V AC (r.m.s.) to an appliance rated up to 120V, and 3000V AC (r.m.s.) to an appliance rated 200V or more, for a period of one second.)
This method of test requires a test equipment not generally found in the service trade.

b) **Leakage Current Check**
Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Using a "Leakage Current Tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground (water pipe, etc.). Any leakage current must not exceed 0.5mA AC (r.m.s.).
However, in tropical area, this must not exceed 0.2mA AC (r.m.s.).

Alternate Check Method
Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Use an AC voltmeter having 1000Ω per volt or more sensitivity in the following manner. Connect a 1500Ω 10W resistor paralleled by a 0.15μF AC-type capacitor between an exposed metal part and a known good earth ground (water pipe, etc.). Measure the AC voltage across the resistor with the AC voltmeter. Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75V AC (r.m.s.). This corresponds to 0.5mA AC (r.m.s.).
However, in tropical area, this must not exceed 0.3V AC (r.m.s.). This corresponds to 0.2mA AC (r.m.s.).



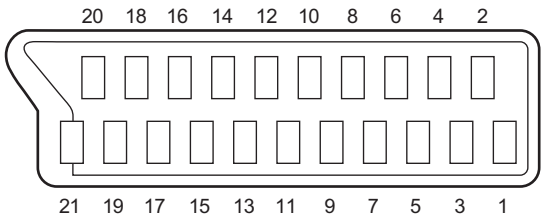
SECTION 2
SPECIFIC SERVICE INSTRUCTIONS

2.1 21-pin Euro connector (SCART) : AV-1 / AV-2 (AV-2S)

Pin No.	Signal Designation	Matching Value	AV-1	AV-2 (AV-2S)
1	AUDIO R output	500mV(rms) (Nominal), Low impedance	Used	Used
2	AUDIO R input	500mV(rms) (Nominal), High impedance	Used (R1)	Used (R2)
3	AUDIO L output	500mV(rms) (Nominal), Low impedance	Used	Used
4	AUDIO GND	---	Used	Used
5	GND (B)	---	Used	Used
6	AUDIO L input	500mV(rms) (Nominal), High impedance	Used (L1)	Used (L2)
7	B input	700mV(B-W), 75 Ω	Used	Used
8	FUNCTION SW (SLOW SW)	Low : 0V-3V, High : 8V-12V, High impedance	Used	Used
9	GND (G)	---	Used	Used
10	SCL / T-V LINK	---	Not used	Used (SCL / TV-LINK)
11	G input	700mV(B-W), 75 Ω	Used	Used
12	SDA3	---	Not used	Not used
13	GND (R)	---	Used	Used
14	GND (YS)	---	Used	Used
15	R / C input	R : 700mV(B-W), 75 Ω C : $300mV_{(P-P)}$, 75 Ω	Used (R)	Used (C2/R)
16	Ys input (FAST SW)	Low : 0V-0.4V, 75 Ω High : 1V-3V, 75 Ω	Used	Used
17	GND (VIDEO output)	---	Used	Used
18	GND (VIDEO input)	---	Used	Used
19	VIDEO output	$1V_{(P-P)}$ (Negative sync), 75 Ω	Used	Used
20	VIDEO / Y input	$1V_{(P-P)}$ (Negative sync), 75 Ω	Used	Used
21	COMMON GND	---	Used	Used

(P-P= Peak to Peak, B-W= Blanking to white peak)

[Pin assignment]



2.2 FEATURES

- It is a remote controlled color television.
- 100 programs from VHF, UHF bands or cable channels can be preset.
- It can tune cable channels.
- Controlling the TV is very easy by its menu driven system.
- It has two Euroconnector sockets for external device (such as video recorder, video games, audio set, etc.)
- Front AV Input available.
- Stereo sound systems (German + Nicam) are available.
- Full function Teletext (Fastext, Toptext).
- It is possible to connect headphone.
- Direct channel access.
- APS (Automatic Programming System).
- All programs can be named.
- Forward or backward automatic tuning.
- Sleep timer.
- Child Lock.
- Automatic sound mute when no transmission.
- 5 minutes after the broadcasting (closedown), the TV switches itself automatically to stand-by mode.

2.3 MAIN DIFFERENCE LIST

⚠	Part Name	[/A models]	[/B models]
	Model name	AV-21KT1BEF/A AV-21KT1BNF/A AV-21KT1BPF/A AV-21KT1SEF/A AV-21KT1SNF/A AV-21KT1SPF/A	AV-21KT1BEF/B AV-21KT1BNF/B AV-21KT1BPF/B AV-21KT1SEF/B AV-21KT1SNF/B AV-21KT1SPF/B
⚠	PICTURE TUBE	VE-LG320X65	VE-THO13X191

⚠	Part Name	**AV-21KT1BEF AV-21KT1BNF AV-21KT1BPF**	**AV-21KT1SEF AV-21KT1SNF AV-21KT1SPF**
	COLOUR	BLACK	SILVER
⚠	FRONT CABINET	VE-20122422	VE-20122430
⚠	REAR COVER	VE-20112186	VE-20121199
⚠	FUNCTION BUTTON	VE-20112187	VE-20121204
⚠	POWER BUTTON	VE-20112223	VE-20121207
	JVC LOGO	VE-40013592	VE-40013593

⚠	Part Name	AV-21KT1BEF AV-21KT1SEF	AV-21KT1BNF AV-21KT1SNF	AV-21KT1BPF AV-21KT1SPF
⚠	MAIN PWB ASSY	VE-20124223 [/A] VE-20133635 [/B]	VE-20124225 [/A] VE-20129865 [/B]	VE-20121220 [/A] VE-20129808 [/B]
⚠	INSTRUCTION BOOK	VE-50036404	VE-50036402	VE-50036403
⚠	RATING LABEL	VE-20122445	VE-20122419	VE-20122423
	CARTON BOX	VE-50036605	VE-50036586	VE-50036588

SECTION 3
DISASSEMBLY

3.1 DISASSEMBLY PROCEDURE

3.1.1 REMOVING THE REAR COVER

(1) Unplug the power cord.
(2) Remove the 7 screws **[A]** as shown in the Fig. 1.
(3) Withdraw the REAR COVER toward you.

3.1.2 REMOVING THE MAIN PWB

- Remove the REAR COVER.
  (1) Slightly raise the both sides of the chassis by hand and withdraw the MAIN PWB backward.
  (If necessary, take off the wire clamp, connectors etc.)

3.1.3 REMOVING THE SPEAKER

- Remove the REAR COVER.
  (1) Remove the 4 screws **[B]**, and remove speaker as shown in Fig. 1.
  (2) Remove the speaker.
  (3) Remove the other side speaker by same procedure.

3.1.4 REMOVING THE FRONT AV PWB

- Remove the REAR COVER.
- Remove the MAIN PWB.
  (1) Remove the 2 screws marked **[C]** as shown in Fig. 1.
  (2) Remove the FRONT AV PWB.

3.1.5 REMOVING THE HEADPHONE PWB

- Remove the REAR COVER.
- Remove the MAIN PWB.
  (1) Remove the 1 screw **[D]** as shown in Fig. 1.
  (2) Remove the HEADPHONE PWB.

3.1.6 CHECKING THE PW BOARD

- To check the back side of the PW Board.
  (1) Pull out the PW Board. (Refer to REMOVING THE MAIN PWB).
  (2) Erect the PW Board vertically so that you can easily check the back side of the PW Board.

3.1.7 CAUTION

- When erecting the PW Board, be careful so that there will be no contacting with other PW Board.
- Before turning on power, make sure that the wire connector is properly connected.
- When conducting a check with power supplied, be sure to confirm that the CRT EARTH WIRE (BRAIDED ASS'Y) is connected to the CRT SOCKET PW board.

3.1.8 WIRE CLAMPING AND CABLE TYING

(1) Be sure to clamp the wire.
(2) Never remove the cable tie used for tying the wires together.
Should it be inadvertently removed, be sure to tie the wires with a new cable tie.

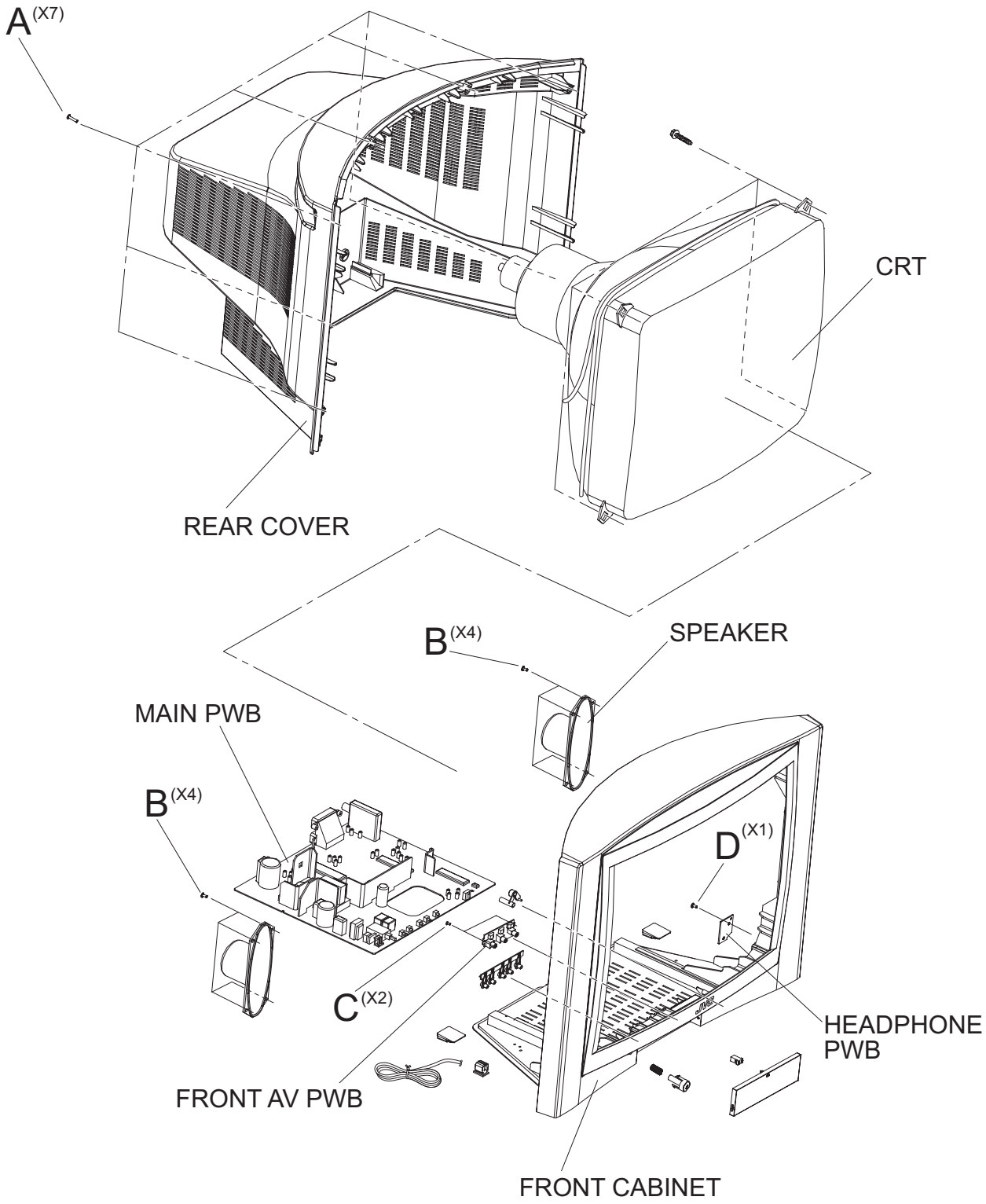

A (X7)
CRT
REAR COVER
B (X4)
SPEAKER
MAIN PWB
B (X4)
D (X1)
C (X2)
HEADPHONE PWB
FRONT AV PWB
FRONT CABINET

Fig.1

3.2 REPLACEMENT OF CHIP COMPONENT

3.2.1 CAUTIONS

(1) Avoid heating for more than 3 seconds.
(2) Do not rub the electrodes and the resist parts of the pattern.
(3) When removing a chip part, melt the solder adequately.
(4) Do not reuse a chip part after removing it.

3.2.2 SOLDERING IRON

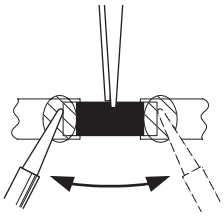
(1) Use a high insulation soldering iron with a thin pointed end of it.
(2) A 30w soldering iron is recommended for easily removing parts.

3.2.3 REPLACEMENT STEPS

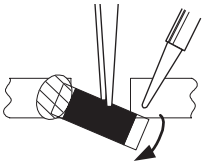
1. How to remove Chip parts

[Resistors, capacitors, etc.]

(1) As shown in the figure, push the part with tweezers and alternately melt the solder at each end.



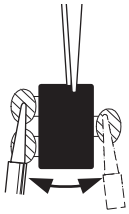
(2) Shift with the tweezers and remove the chip part.



[Transistors, diodes, variable resistors, etc.]

(1) Apply extra solder to each lead.

(2) As shown in the figure, push the part with tweezers and alternately melt the solder at each lead. Shift and remove the chip part.



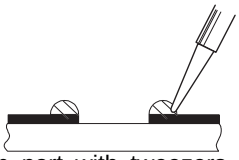
NOTE :

After removing the part, remove remaining solder from the pattern.

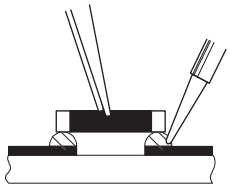
2. How to install Chip parts

[Resistors, capacitors, etc.]

(1) Apply solder to the pattern as indicated in the figure.

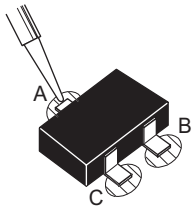


(2) Grasp the chip part with tweezers and place it on the solder. Then heat and melt the solder at both ends of the chip part.

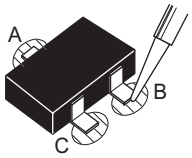


[Transistors, diodes, variable resistors, etc.]

(1) Apply solder to the pattern as indicated in the figure.
(2) Grasp the chip part with tweezers and place it on the solder.
(3) First solder lead **A** as indicated in the figure.



(4) Then solder leads **B** and **C**.



3.3 REPLACEMENT OF MEMORY IC

3.3.1 MEMORY IC

This model use a memory IC. This memory IC stores data for proper operation of the video and deflection circuits. When replacing, be sure to use an IC containing this (initial value) data.

3.3.2 PROCEDURE FOR REPLACING MEMORY IC

1. Power off

Switch the power off and unplug the power cord from the outlet.

2. Replace IC.

Be sure to use memory IC written with the initial data values.

3. Power on

Plug the power cord into the outlet and switch the power on.

4. SERVICE MENU setting

(1) Press [MENU] key and, while the displayed MENU screen, press [4], [7], [2], [5] key on the remote control unit or press [MUTING] key and [INFORMATION] key at the simultaneously.

(2) The SERVICE MENU screen of Fig. 1 will be displayed.

(3) Verify what to set in the SERVICE MENU, and set whatever is necessary (Fig.1). Refer to the SERVICE ADJUSTMENT for setting.

(4) Press the [STANDARD] key to exit SERVICE MENU.

5. Receive channel setting

Refer to the OPERATING INSTRUCTIONS (USER'S GUIDE) and set the receive channels (Channels Preset) as described.

6. User settings

Check the user setting items according to after page.

Where these do not agree, refer to the OPERATING INSTRUCTIONS (USER'S GUIDE) and set the items as described.

SERVICE MENU

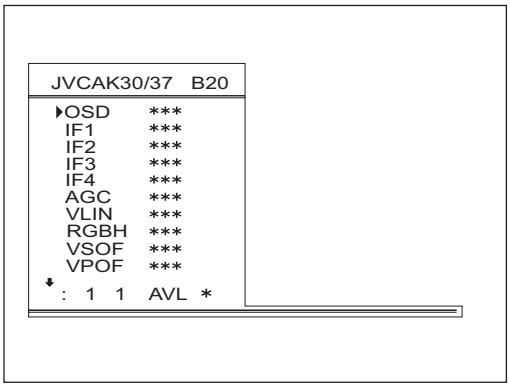


Fig.1

SERVICE MENU SELECT KEY

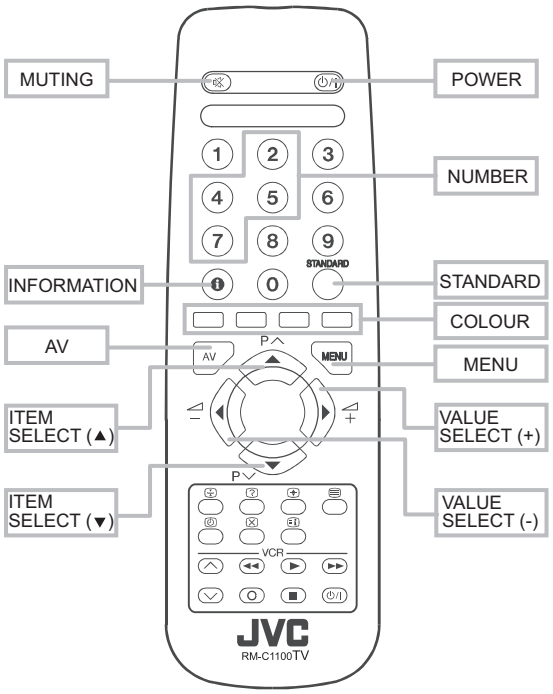


Fig.2

3.4 SETTING OF THE LAST MEMORY FOR SHIPMENT

3.4.1 USER SETTING VALUES

Setting Item	Setting Value	Setting Item	Setting Value
SOUND MENU		FEATURE MENU	
BALANCE	CENTER	SLEEP TIMER	OFF
BASS	CENTER	CHILD LOCK	OFF
TREBLE	CENTER	LANGUAGE	ENGLISH
MODE	STEREO	AV-2 OUTPUT	TV
EFFECT	OFF		
PICTURE MENU		INSTALL	
BRIGHTNESS	These adjust are automatically restored when APS bit in Service menu is set. The procedure for setting APS bit is described below.	PROGRAMME	Refer to the INSTRUCTION BOOK.
CONTRAST		BAND	
COLOUR		CHANNEL	
SHARPNESS		SEARCH	
HUE(only NTSC)		FINE TUNING	
MODE	AUTO	STORE	

3.4.2 SETTING APS BIT IN SERVICE MENU

(1) Enter service menu in TV mode by pressing "INFORMATION" and "MUTING"keys simultaneously. Service Menu will appear.
(2) Select TX1(TELETEXT OPTION) by pressing Up/Down keys on remote control unit.
(3) Press the 7 key on remote control unit to set APS bit. (After this, bit 7 of TX1 will be "1")
(4) Press STANDARD key on remote control unit to exit service mode.

NOTE :

DO NOT TURN OFF THE TV BY USING POWER BUTTON ON THE FRONT PANEL.

SECTION 4
ADJUSTMENT

4.1 ADJUSTMENT PREPARATION

(1) You can make the necessary adjustments for this unit with either the Remote Control Unit or with the adjustment tools and parts as given below.
(2) Adjustment with the Remote Control Unit is made on the basis of the initial setting values, however, the new setting values which set the screen to its optimum condition may differ from the initial settings.
(3) Make sure that AC power is turned on correctly.
(4) Turn on the power for set and test equipment before use, and start the adjustment procedures after waiting at least 30 minutes.
(5) Unless otherwise specified, prepare the most suitable reception or input signal for adjustment.
(6) Never touch any adjustment parts which are not specified in the list for this adjustment - variable resistors, transformers, condensers, etc.
(7) Presetting before adjustment.
Unless otherwise specified in the adjustment instructions, preset the following functions with the remote control unit:

BRIGHTNESS	CENTER
CONTRAST	
COLOUR	
SHARPNESS	

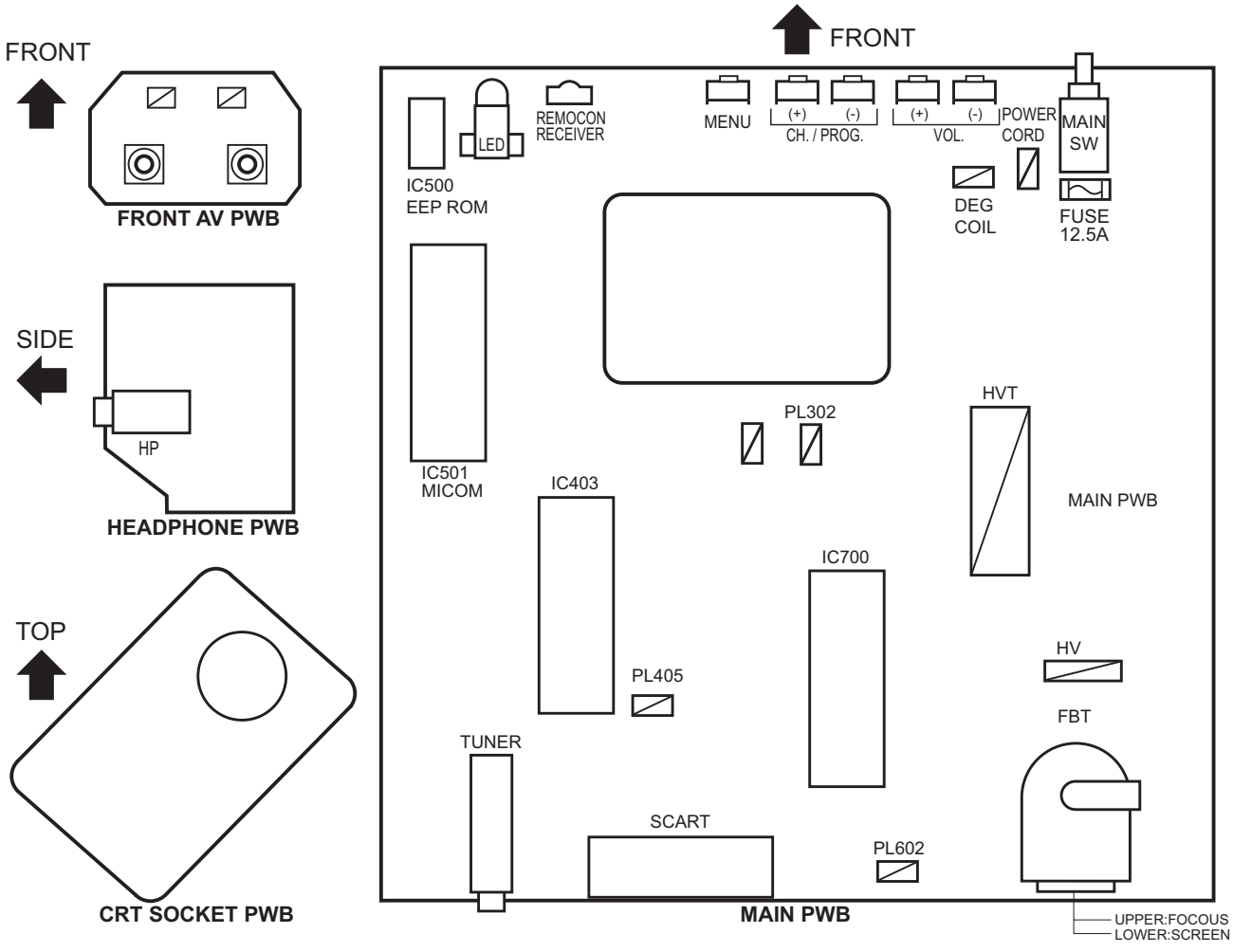
4.2 ADJUSTMENT EQUIPMENT

(1) DC voltmeter (or digital voltmeter)
(2) Signal generator (Pattern generator)
[PAL / SECAM / NTSC]
(3) Remote control unit

4.3 ADJUSTMENT ITEM

- FOCUS ADJUSTMENT
- SCREEN ADJUSTMENT
- OSD HORIZONTAL POSITION ADJUSTMENT
- IF ADJUSTMENT
- AGC AUTOMATICALLY ADJUSTMENT
- DEFLECTION CIRCUIT ADJUSTMENT
- GEOMETRY MENU ADJUSTMENT
- WHITE BALANCE ADJUSTMENT

4.4 ADJUSTMENT LOCATIONS



4.5 BASIC OPERATION OF SERVICE MENU

4.5.1 HOW TO ENTER SERVICE MENU

(1) Press the MENU key.
(2) MENU screen of (fig.1) will be displayed.

MENU SCREEN

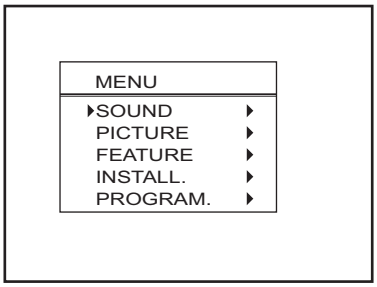


Fig.1

(3) While the MENU screen is displayed , press the [4], [7], [2], [5] key or [INFORMATION] key and [MUTING] key simultaneously.
(4) The SERVICE MENU screen of (Fig.2) will be displayed.

SERVICE MENU

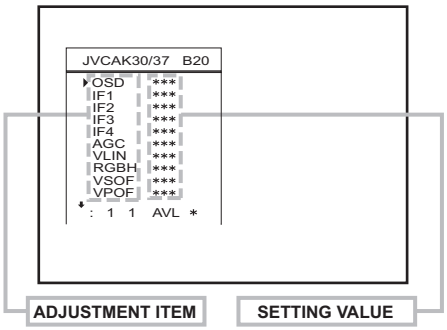


Fig.2

4.5.2 SELECTION OF ADJUSTMENT ITEMS

(1) Enter the SERVICE MENU
(2) Press the [▲/▼] key and select the ADJUSTMENT ITEM.
(3) Press the [◀ / ▶] key and set the SETTING VALUE.

4.5.3 HOW TO EXIT SERVICE MODE

(1) Press the [STANDARD] Key on REMOTE CONTROL UNIT.

4.5.4 HOW TO ENTER THE GEOMETRY MENU

- This model is built-in GEOMETRY MENU for geometry adjustment.
  (1) Enter the SERVICE MENU
  (2) Press the [GREEN] key, geometry menu appears (Fig.3).
  (3) Press the [▲/▼] key and select the ADJUSTMENT ITEM.
  (4) Press the [◀ / ▶] key and set the SETTING VALUE.

GEOMETRY MENU

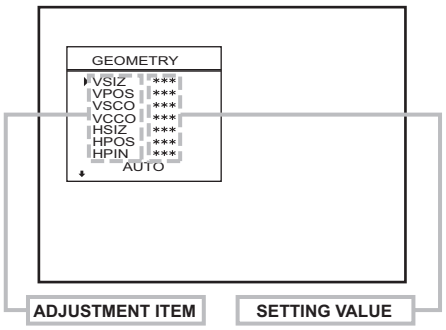
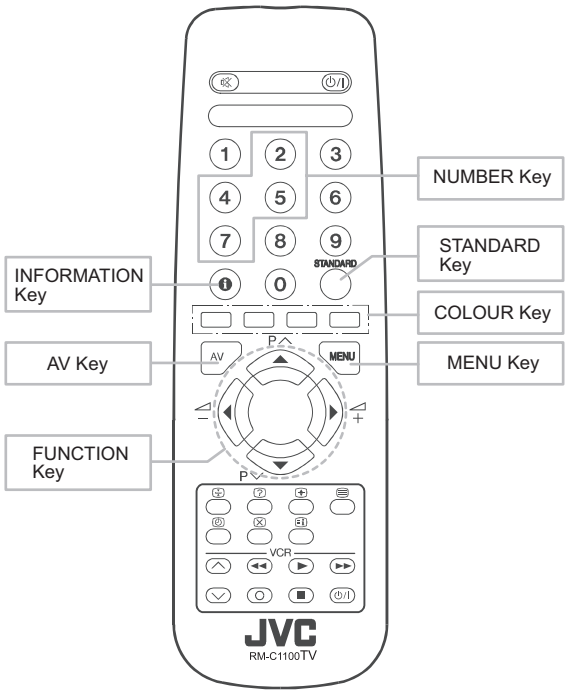


Fig.3

REMOTE CONTROL UNIT key NAME



FUNCTION OF COLOUR key

RED key :
It switches the AVL to ON or OFF mode on service menu.
AVL word is visible on service menu when AVL is on.

GREEN key :
It switches to GEOMETRY adjust menu. Geometry of the picture is adjusted in this menu.

YELLOW key :
It switches to VERTICAL SCAN DISABLE mode.
It is useful to adjust screen voltage.

BLUE key :
It is used to adjust AGC and IF automatically on service menu.

4.5.5 ADJUSTMENT ITEM

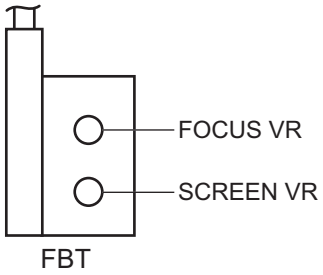
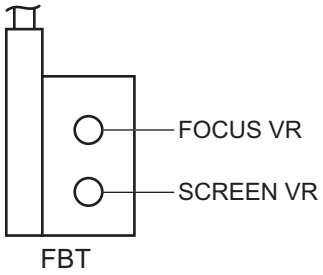
ADJUSTMENT ITEM	DESCRIPTION
OSD	HORIZONTAL POSITION OF OSD
IF1	IF COARSE ADJUSTMENT
IF2	IF FINE ADJUSTMENT
IF3	IF COARSE ADJUSTMENT FOR L-PRIME
IF4	IF FINE ADJUSTMENT FOR L-PRIME
AGC	AUTOMATIC GAIN CONTROL
VLIN	VERTICAL LINEARITY
RGBH	RGB MODE HORIZONTAL SHIFT OFFSET
VSOF	VERTICAL SIZE OFFSET for 60Hz
VPOF	VERTICAL POSITION OFFSET for 60Hz
HSOF	HORIZONTAL SIZE OFFSET for 60Hz
HPOF	HORIZONTAL POSITION OFFSET for 60Hz
HTOF	HORIZONTAL TRAPEZOID OFFSET for 60Hz
WR	WHITE POINT ADJUSTMENT FOR RED
WG	WHITE POINT ADJUSTMENT FOR GREEN
WB	WHITE POINT ADJUSTMENT FOR BLUE
BR	BIAS FOR RED
BG	BIAS FOR GREEN
APR	AUTOMATIC RGB PEAK REGULATION THRESHOLD
BRI	BRIGHTNESS
CON	CONTRAST
COL	COLOUR
SHA	SHARP
HUE	HUE
VOL	VOLUME
WR-R	WHITE POINT ADJUSTMENT for RED (RGBmode)
WG-R	WHITE POINT ADJUSTMENT for GREEN (RGBmode)
WB-R	WHITE POINT ADJUSTMENT for BLUE (RGBmode)
FMP1	FM PRESCALER WHEN AVL IS OFF
NIP1	NICAM PRESCALER WHEN AVL IS OFF
SCP1	SCART PRESCALER WHEN AVL IS OFF
SEC1	SECAM PRESCALER WHEN AVL IS OFF
FMP2	FM PRESCALER WHEN AVL IS ON
NIP2	NICAM PRESCALER WHEN AVL IS ON
SCP2	SCART PRESCALER WHEN AVL IS ON
SEC2	SECAM PRESCALER WHEN AVL IS ON
F1H	HIGH BYTE OF VHF1-VHF3 CROSS-OVER FREQUENCY
F1L	LOW BYTE OF VHF1-VHF3 CROSS-OVER FREQUENCY
F2H	HIGH BYTE OF VHF3-UHF CROSS-OVER FREQUENCY
F2L	LOW BYTE OF VHF3-UHF CROSS-OVER FREQUENCY
BS1	BAND SWITCHING BYTE FOR VHF1
BS2	BAND SWITCHING BYTE FOR VHF3
BS3	BAND SWITCHING BYTE FOR UHF
CB	CONTROL BYTE
OP1	PERIPHERAL OPTIONS
OP2	RECEPTION STANDARD OPTIONS
OP3	VIDEO OPTIONS
OP4	TV FEATURES
OP5	CHANNEL TABLES
TX1	TELETEXT OPTIONS
GEOM	GEOMETRY OPTIONS
OP8	PIP PRESET CHANGE

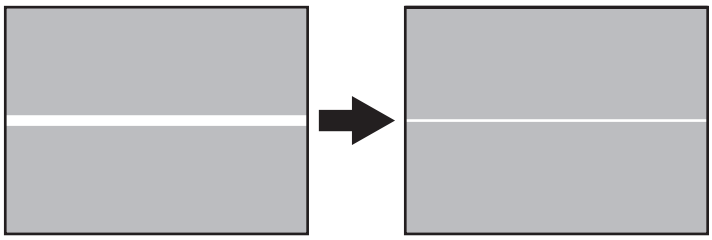
4.5.6 GEOMETRY MENU

ADJUSTMENT ITEM	DESCRIPTION
VSIZ	VERTICAL SIZE for 50Hz
VPOS	VERTICAL POSITION for 50Hz
VSCO	VERTICAL S-CORRECTION for 50Hz
VCCO	VERTICAL CORNER CORRECTION for 50Hz
HSIZ	HORIZONTAL SIZE for 50Hz
HPOS	HORIZONTAL POSITION for 50Hz
HPIN	HORIZONTAL PINCUSHION for 50Hz
HCCO	HORIZONTAL CORNER CORRECTION for 50H
HTRP	HORIZONTAL TRAPEZOID for 50Hz
VZSZ	VERTICAL ZOOM SIZE for 50Hz

4.6 ADJUSTMENT PROCEDURE

4.6.1 FOCUS / SCREEN ADJUSTMENT

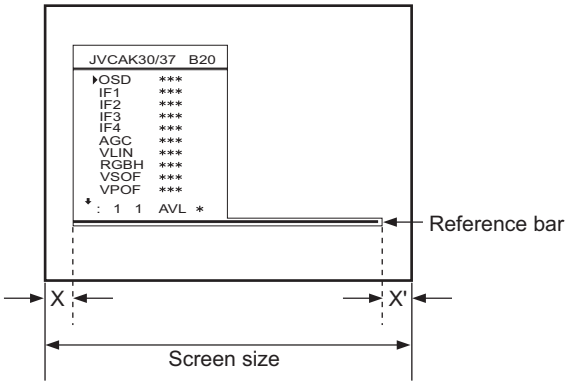
Item	Measuring instrument	Test point	Adjustment part	Description
FOCUS adjustment	Signal generator Remote control unit		FOCUS VR [On the FBT]	(1) Receive a PAL cross-hatch signal. (2) Adjust FOCUS VR on the FBT as thin as possible. 
SCREEN adjustment	Remote control unit		SCREEN VR [On the FBT]	(1) Enter the SERVICE MENU. (2) Press the [YELLOW] key to disable vertical scan. (3) Adjust SCREEN VR. on the FBT as thin as possible. (4) Press [YELLOW] key again to enable vertical scan. (5) Press [STANDARD] key to leave service menu. 



4.6.2 OSD ADJUSTMENT

Item	Measuring instrument	Test point	Adjustment part	Description
HORIZONTAL POSITION OF OSD adjustment	Remote control unit		OSD	(1) Enter the SERVICE MENU. (2) Select OSD with the [▲/▼] key. (3) Adjust the OSD horizontal position with the [◀/▶] key, which shifts the reference bar on the bottom of the SERVICE MENU horizontally, so that the OSD is positioned on the screen center. (X=X')

SERVICE MENU SCREEN

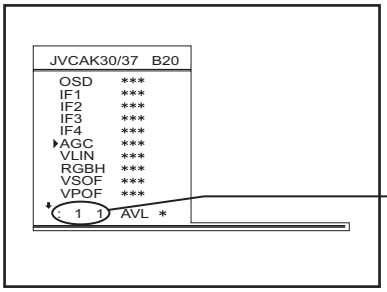


4.6.3 IF ADJUSTMENT

Item	Measuring instrument	Test point	Adjustment part	Description
IF adjustment	Remote control unit		IF 1 IF 2 IF 3 IF 4	(1) Receive a PAL colour bar pattern. (2) Enter the SERVICE MENU. (3) Select IF 1 with the [▲/▼] key (4) Press [BLUE] key during IF 1 is highlighted, IF 1 and IF 2 values are adjusted automatically by software. (5) If the standard is L-prime, IF 3 and IF 4 values are adjustment automatically when [BLUE] key is pressed during IF 1 is highlighted.

4.6.4 AGC AUTOMATICALLY ADJUSTMENT

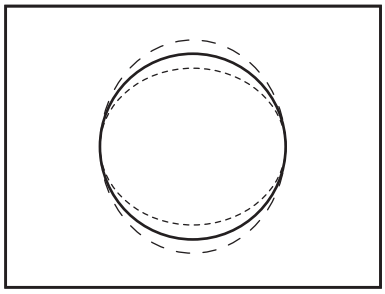
Item	Measuring instrument	Test point	Adjustment part	Description
AGC AUTOMATICALLY adjustment	Remote control unit		AGC	(1) Enter the SERVICE MENU. (2) Receive a 60dBmV RF signal level. (3) Select AGC with the [▲/▼] key. (4) Press [BLUE] key on the remote control unit. (5) Then the adjustment will be done automatically by software. (6) See the AGC indicator on SERVICE MENU, it must be "1". (7) Check that picture is normal at 90dBmV signal level.

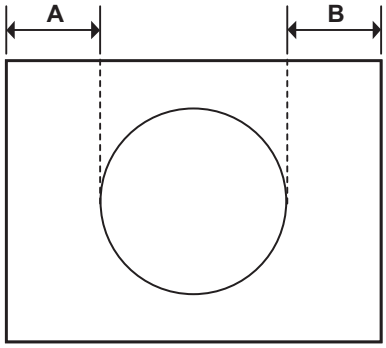
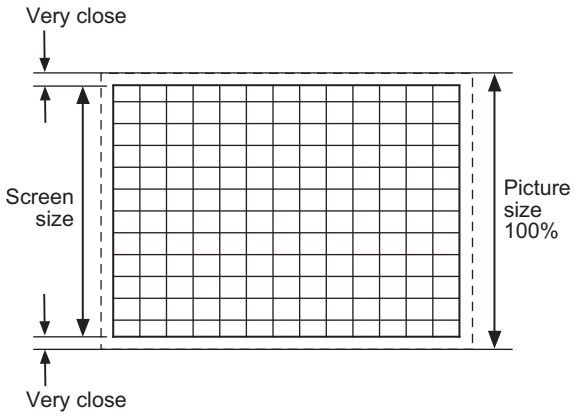
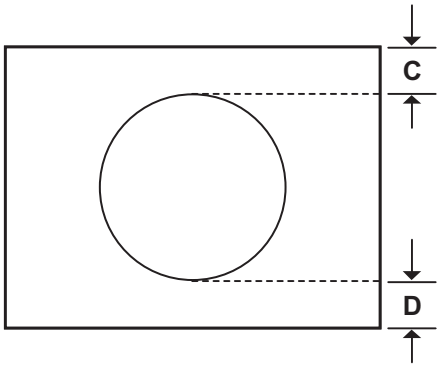


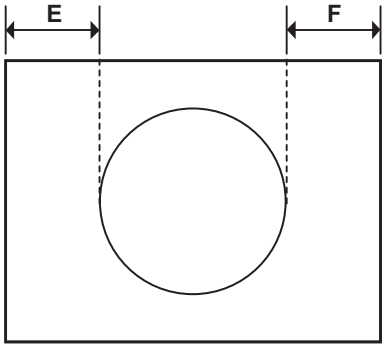
IF INDICATOR	AGC INDICATOR	NONE
:	1	1

4.6.5 DEFLECTION CIRCUIT ADJUSTMENT

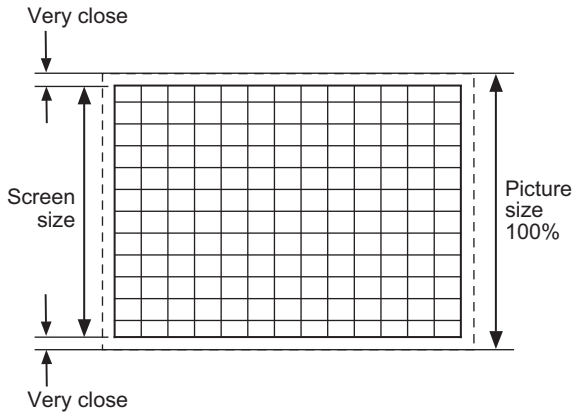
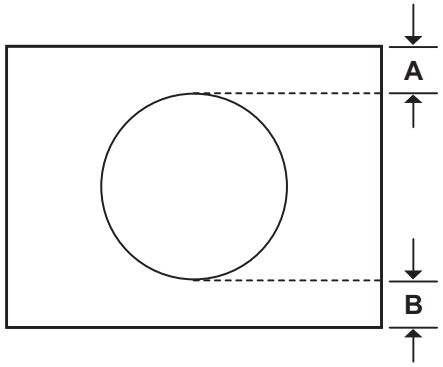
Item	Measuring instrument	Test point	Adjustment part	Description
VERTICAL LINEARITY adjustment	Signal generator Remote control unit		VLIN	(1) Receive a PAL B/G circle pattern. (2) Enter the SERVICE MENU. (3) Select VLIN with the [▲/▼] key. (4) Adjust VLIN with the [◀/▶] key until circle as round as possible.

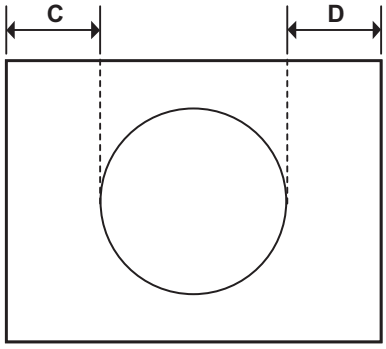


Item	Measuring instrument	Test point	Adjustment part	Description
RGB MODE HORIZONTAL SHIFT adjustment	Signal generator Remote control unit		RGBH	(1) Input R/G/B circle pattern signal via video input terminal. (2) Press [AV] key on the remote control unit, force the TV to RGB mode. (3) Enter the SERVICE MENU. (4) Select RGBH with the [▲/▼] key. (5) Adjust RGBH with the [◀/▶] key until the circle pattern is horizontally centered.(A=B) (6) Check and readjust RGBH item if the adjustment becomes improper after some other geometric adjustments are done.
				
VERTICAL SIZE OFFSET adjustment (60Hz)	Signal generator Remote control unit		VSOF	(1) Receive a NTSC-M cross-hatch pattern of vertical frequency 60Hz. (2) Enter SERVICE MENU. (3) Select VSOF with the [▲/▼] key. (4) Adjust VSOF with the [◀/▶] key until the horizontal black lines on both the upper and lower part of the pattern become very close to the opper anr lower horizontal sides of picture size and nearly about to disappear. (5) Check and readjust VSOF item if the adjustment bocomes improper after some other geometric adjustments are done.
				
VERTICAL POSITION OFFSET adjustment (60Hz)	Signal generator Remote control unit		VPOF	(1) Receive a NTSC-M circle pattern of vertical frequency 60Hz. (2) Enter the SERVICE MENU. (3) Select VPOF with the [▲/▼] key. (4) Adjust VPOF with the [◀/▶] key until the picture is vertically centered.(C=D) (5) Check and readjust vertical position item if the adjustment becomes improper after some other geometric adjustments are done.
				

Item	Measuring instrument	Test point	Adjustment part	Description
HORIZONTAL POSITION OFFSET adjustment (60Hz)	Signal generator Remote control unit		HPOF	(1) Receive a NTSC-M circle pattern signal of vertical frequency 60Hz. (2) Enter the SERVICE MENU. (3) Select HPOF with the [▲/▼] key. (4) Adjust HPOF with the [◀/▶] key until the circle pattern is horizontally centered.(E=F) (5) Check and readjust a horizontal position item if the adjustment becomes improper after some other geometric adjustments are done. Press the [MENU] key and memorize the set value.
				

4.6.6 GEOMETRY MENU ADJUSTMENT

Item	Measuring instrument	Test point	Adjustment part	Description
VERTICAL SIZE adjustment (50Hz)	Signal generator Remote control unit		VSIZ	(1) Receive a PAL B/G cross-hatch pattern of vertical frequency 50Hz. (2) Enter the SERVICE MENU. (3) Press the [GREEN] key then enter the GEOMETRY MENU. (4) Select VSIZ (Vertical size) with the [▲/▼] key. (5) Adjust VSIZ with the [◀/▶] key until the horizontal black lines on both the upper and lower horizontal sides of picture size and nearly about to disappear. (6) Check and readjust VSIZ item if the adjustment becomes improper after some other geometric adjustments are done.
				
VERTICAL POSITION adjustment (50Hz)	Signal generator Remote control unit		VPOS	(1) Receive a PAL B/G circle pattern signal of vertical frequency 50Hz. (2) Enter the GEOMETRY MENU. (3) Select VPOS (Vertical position) with the [▲/▼] key. (4) Adjust VPOS with the [◀/▶] key until the circle pattern is vertically centered.(A=B) (5) Check and readjust VPOS item if the adjustment becomes improper after some other geometric adjustments are done.
				

Item	Measuring instrument	Test point	Adjustment part	Description
HORIZONTAL POSITION OFFSET adjustment (50Hz)	Signal generator Remote control unit		HPOS	(1) Receive a PAL B/G circle pattern signal of vertical frequency 50Hz. (2) Enter the GEOMETRY MENU. (3) Select HPOS (Horizontal position) with the [▲/▼] key. (4) Adjust HPOS with the [◀/▶] key until the circle pattern is horizontally centered.(C=D) (5) Check and readjust HPOS item if the adjustment becomes improper after some other geometric adjustments are done.
				

4.6.7 WHITE BALANCE ADJUSTMENT

Item	Measuring instrument	Test point	Adjustment part	Description
WHITE BALANCE adjustment (Low light)	Signal generator Remote control unit		WR WG WB	(1) Receive a black & white signal (colour off). (2) Enter the SERVICE MENU. (3) Select WR / WG / WB with the [▲/▼] key respectively. (4) Adjust WR / WG / WB with the [◀/▶] key, respectively, until the white part turns to pure white without any other colour.
WHITE BALANCE adjustment (High light)	Signal generator Remote control unit		BR BG	(1) Receive a black & white signal (colour off). (2) Enter the SERVICE MENU. (3) Select BR / BG with the [▲/▼] key respectively. (4) Adjust BR / BG with the [◀/▶] key, respectively until the white part of screen make white colour.

SECTION 5
TROUBLESHOOTING

This service manual does not describe TROUBLESHOOTING.

JVC

VICTOR COMPANY OF JAPAN, LIMITED
AV & MULTIMEDIA COMPANY VIDEO DISPLAY CATEGORY 12, 3-chome, Moriya-cho, kanagawa-ku, Yokohama, kanagawa-prefecture, 221-8528, Japan

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AV-21KT1BEF/A, /B, AV-21KT1SEF/A, /B
AV-21KT1BNF/A, /B, AV-21KT1SNF/A, /B
AV-21KT1BPF/A, /B, AV-21KT1SPF/A, /B
STANDARD CIRCUIT DIAGRAM

■ NOTE ON USING CIRCUIT DIAGRAMS

1.SAFETY

The components identified by the ⚠ symbol and shading are critical for safety. For continued safety replace safety critical components only with manufactures recommended parts.

2.SPECIFIED VOLTAGE AND WAVEFORM VALUES

The voltage and waveform values have been measured under the following conditions.

(1)Input signal	: Colour bar signal
(2)Setting positions of each knob/button and variable resistor	: Original setting position when shipped
(3)Internal resistance of tester	:DC 20kΩ/V
(4)Oscilloscope sweeping time	:H ⇒ 20μS/div
	:V ⇒ 5mS/div
	:Others ⇒ Sweeping time is specified
(5)Voltage values	:All DC voltage values

∗ Since the voltage values of signal circuit vary to some extent according to adjustments, use them as reference values.

3.INDICATIONS ON THE CIRCUIT DIAGRAM

(1)Resistors

● Resistance value

No unit	:[Ω]
K	:[KΩ]
M	:[MΩ]

● Type

No indication	:Carbon resistor
OMR	:Oxide metal film resistor
MFR	:Metal film resistor
MPR	:Metal plate resistor
UNFR	:Uninflammable resistor
FR	:Fusible resistor

∗ Composition resistor 1/2 [W] is specified as 1/2S or Comp.

(2)Capacitors

● Capacitance value

1 or higher	:[pF]
less than 1	:[μF]

● Withstand voltage

No indication	:DC50[V]
Others	:DC withstand voltage [V]
AC indicated	:AC withstand voltage [V]

∗ Electrolytic Capacitors

47/50[Example]:Capacitance value [μF]/withstand voltage[V]

● Type

No indication	:Ceramic capacitor
MM	:Metalized mylar capacitor
PP	:Polypropylene capacitor
MPP	:Metalized polypropylene capacitor
MF	:Metalized film capacitor
TF	:Thin film capacitor
BP	:Bipolar electrolytic capacitor
TAN	:Tantalum capacitor

(3)Coils

No unit	:[μH]
Others	:As specified

4.NOTE FOR REPAIRING SERVICE

This model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE side GND and the ISOLATED(NEUTRAL) side GND.Therefore, care must be taken for the following points.

(1)Do not touch the LIVE side GND or the LIVE side GND and the ISOLATED(NEUTRAL) side GND simultaneously. If the above caution is not respected, an electric shock may be caused. Therefore, make sure that the power cord is surely removed from the receptacle when, for example, the chassis is pulled out.

(2)Do not short between the LIVE side GND and ISOLATED(NEUTRAL) side GND or never measure with a measuring apparatus measure with a measuring apparatus (oscilloscope, etc.) the LIVE side GND and ISOLATED(NEUTRAL) side GND at the same time. If the above precaution is not respected , a fuse or any parts will be broken.

◆ **Since the circuit diagram is a standard one, the circuit and circuit constants may be subject to change for improvement without any notice.**

NOTE

◆ **Due improvement in performance, some part numbers show in the circuit diagram may not agree with those indicated in the part list.**
When ordering parts, please use the numbers that appear in the Parts List.

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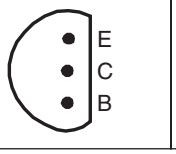
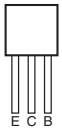
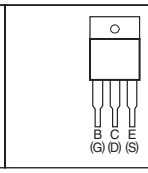
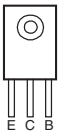
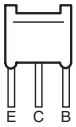
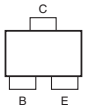
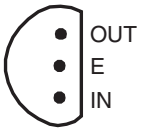
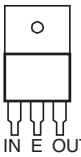
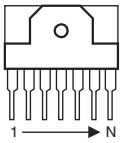
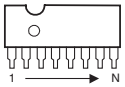
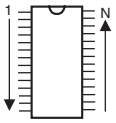
SEMICONDUCTOR SHAPES

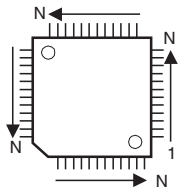
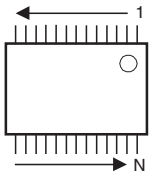
TRANSISTOR

BOTTOM VIEW	FRONT VIEW				TOP VIEW
					CHIP TR 

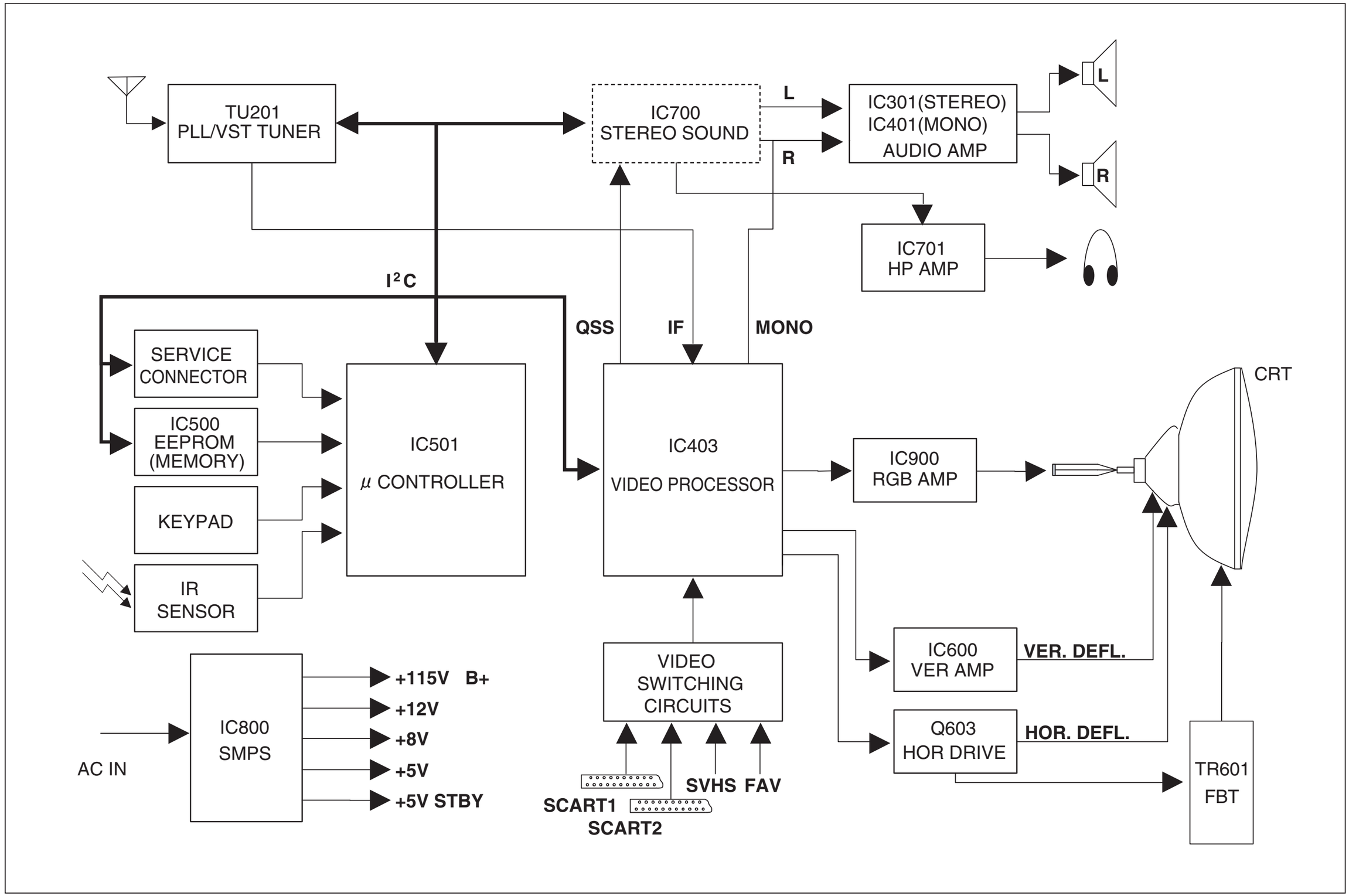
IC

BOTTOM VIEW	FRONT VIEW			TOP VIEW
				

CHIP IC

TOP VIEW		
		

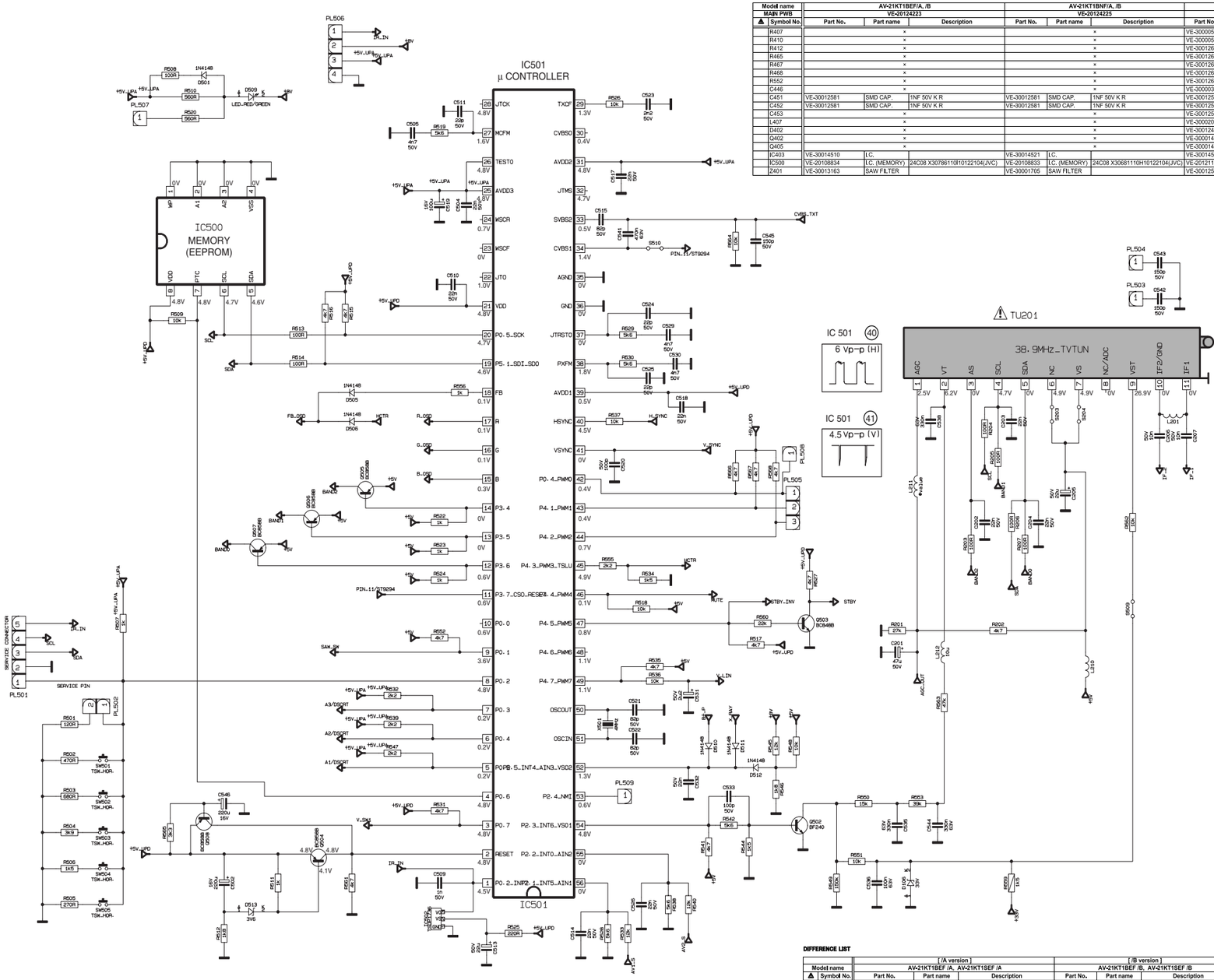
BLOCK DIAGRAM



CIRCUIT DIAGRAMS *MAIN PWB CIRCUIT DIAGRAM [1/6]*

DEFFERENCE LIST

Model name	AV-21KT1BEF/A, /B			AV-21KT1BNF/A, /B			AV-21KT1BPF/A, /B		
MAIN PWB	VE-20124223			VE-20124225			VE-20121220		
⚠ Symbol No.	Part No.	Part name	Description	Part No.	Part name	Description	Part No.	Part name	Description
R407	×			×			VE-30000590	CF R	1/4W 2.2K J
R410	×			×			VE-30000590	CF R	1/4W 2.2K J
R412	×			×			VE-30012696	SMD R	1/16W 47K J
R465	×			×			VE-30012692	SMD R	1/16W 4.7K J
R467	×			×			VE-30012641	SMD R	1/16W 10K J
R468	×			×			VE-30012641	SMD R	1/16W 10K J
R552	×			×			VE-30012692	SMD R	1/16W 4.7K J
C446	×			×			VE-30000345	EL CAP.	10UF 50V M
C451	VE-30012581	SMD CAP.	1NF 50V K R	VE-30012581	SMD CAP.	1NF 50V K R	VE-30012589	SMD CAP.	4.7NF 50V K
C452	VE-30012581	SMD CAP.	1NF 50V K R	VE-30012581	SMD CAP.	1NF 50V K R	VE-30012589	SMD CAP.	4.7NF 50V K
C453	×			×			VE-30012581	SMD CAP.	1NF 50V K R
L407	×			×			VE-30002002	FIXED COIL	47UH
D402	×			×			VE-30012411	SMD DIODE	
Q402	×			×			VE-30001457	SMD TRANSISTOR	
Q405	×			×			VE-30001457	SMD TRANSISTOR	
IC403	VE-30014510	I.C.		VE-30014521	I.C.		VE-30014510	I.C.	
IC500	VE-20108834	I.C. (MEMORY)	24C08 X30786110I10122104(JVC)	VE-20108833	I.C. (MEMORY)	24C08 X30681110H10122104(JVC)	VE-20121164	I.C. (MEMORY)	24C08 X39589110H10122104(JVC)
Z401	VE-30013163	SAW FILTER		VE-30001705	SAW FILTER		VE-30012545	SAW FILTER	



MAIN PWB (1/6)
(µ CONTROLLER)

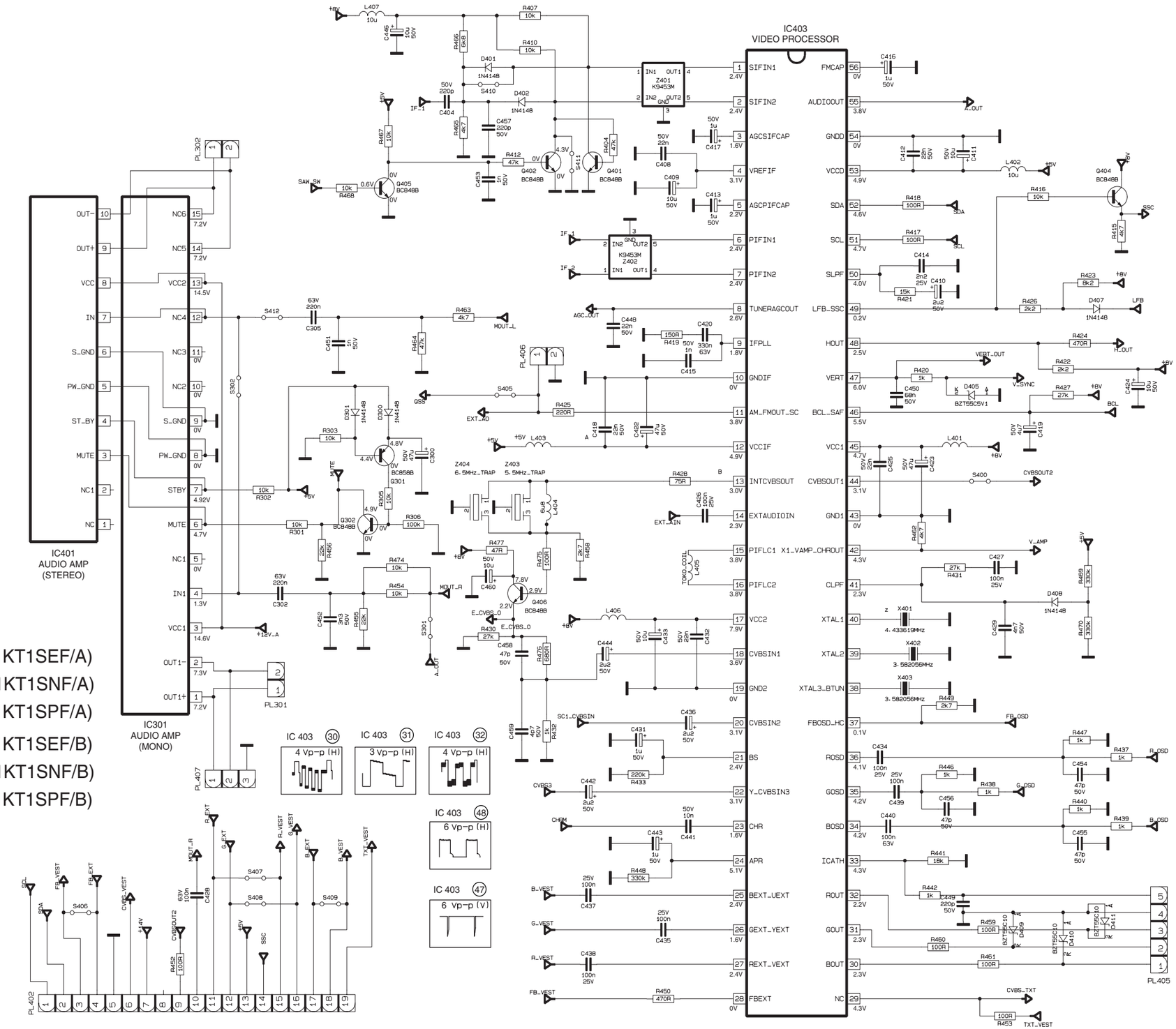
VE-20124223 (AV-21KT1BEF/A, AV-21KT1SEF/A)
VE-20124225 (AV-21KT1BNF/A, AV-21KT1SNF/A)
VE-20121220 (AV-21KT1BPF/A, AV-21KT1SPF/A)
VE-20133635 (AV-21KT1BEF/B, AV-21KT1SEF/B)
VE-20129865 (AV-21KT1BNF/B, AV-21KT1SNF/B)
VE-20129808 (AV-21KT1BPF/B, AV-21KT1SPF/B)

DEFFERENCE LIST

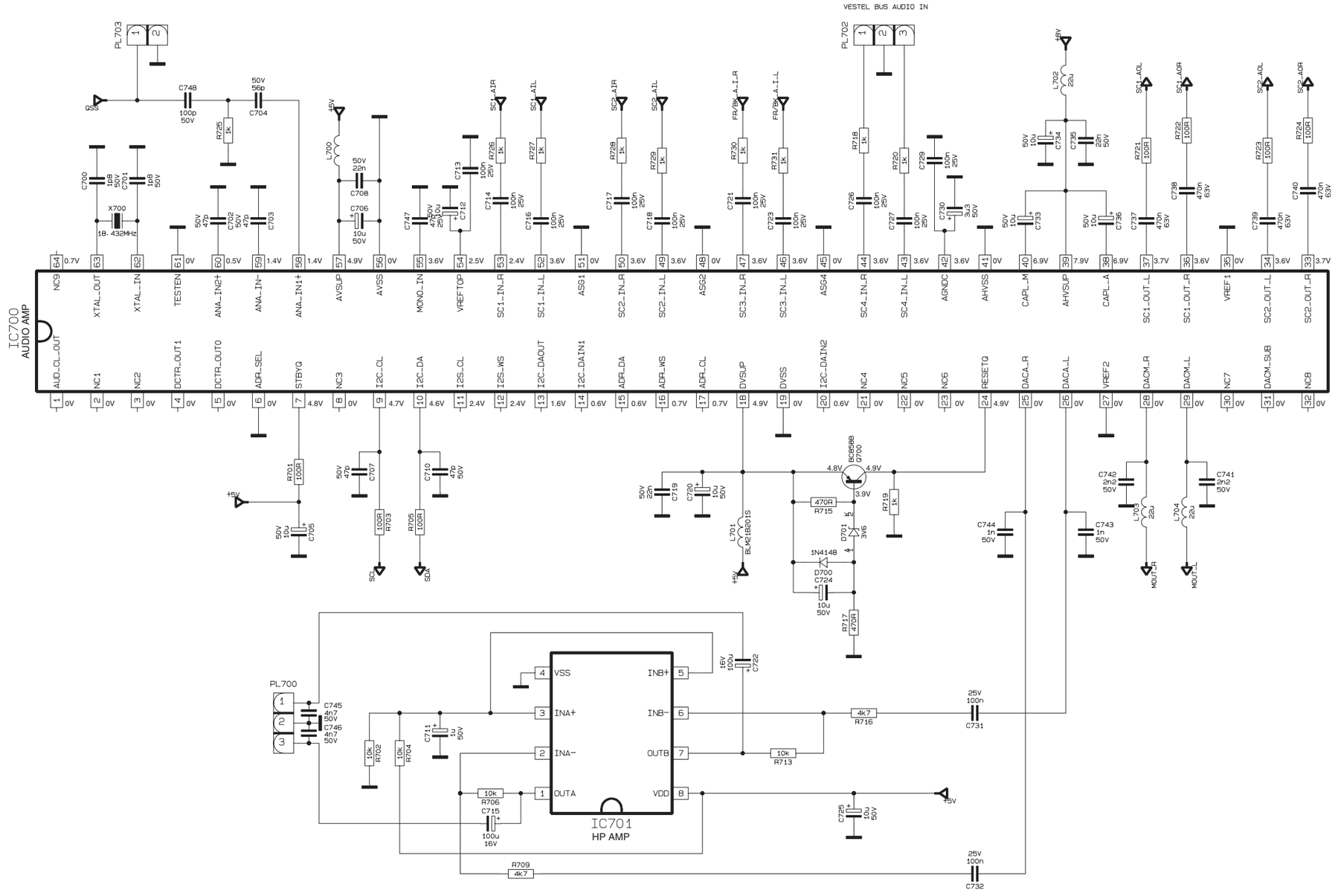
Model name	[/A version] AV-21KT1BEF /A, AV-21KT1SEF /A			[/B version] AV-21KT1BEF /B, AV-21KT1SEF /B		
⚠	Symbol No.	Part No.	Part name	Description	Part No.	Part name	Description
⚠	V01	VE-LG320X65	PICTURE TUBE	Inc. DY, PC MAGNET	VE-THO13X191	PICTURE TUBE	Inc. DY, PC MAGNET
⚠	———	VE-20124223	MAIN PWB	[AV-21KT1BEF/A, AV-21KT1SEF/A]	VE-20133635	MAIN PWB	[AV-21KT1BEF/B, AV-21KT1SEF/B]
⚠	———	VE-20124225	MAIN PWB	[AV-21KT1BNF/A, AV-21KT1SNF/A]	VE-20129865	MAIN PWB	[AV-21KT1BNF/B, AV-21KT1SNF/B]
⚠	———	VE-20121220	MAIN PWB	[AV-21KT1BPF/A, AV-21KT1SPF/A]	VE-20129808	MAIN PWB	[AV-21KT1BPF/B, AV-21KT1SPF/B]
	R602	VE-30000536	CF R	1/4W 150K J	VE-30000513	CF R	1/4W 130K J
	R605	VE-30000504	CF R	1/4W 120K J	VE-30000477	CF R	1/4W 100K J
	R624	VE-30001161	MO R	2W 39R J	VE-30001120	MO R	2W 22R J
⚠	R648	VE-30001246	FUSE R	1W 0.47R J	VE-30002828	FUSE R	1W 0.75R J
⚠	C618	VE-30000136	MKP CAP.	12NF 2000V %3.5	VE-30000174	MKP CAP	7.5NF 1600Vdc / 1250Vp

MAIN PWB (2/6)
(VIDEO PROCESSOR)

VE-20124223 (AV-21KT1BEF/A, AV-21KT1SEF/A)
VE-20124225 (AV-21KT1BNF/A, AV-21KT1SNF/A)
VE-20121220 (AV-21KT1BPF/A, AV-21KT1SPF/A)
VE-20133635 (AV-21KT1BEF/B, AV-21KT1SEF/B)
VE-20129865 (AV-21KT1BNF/B, AV-21KT1SNF/B)
VE-20129808 (AV-21KT1BPF/B, AV-21KT1SPF/B)

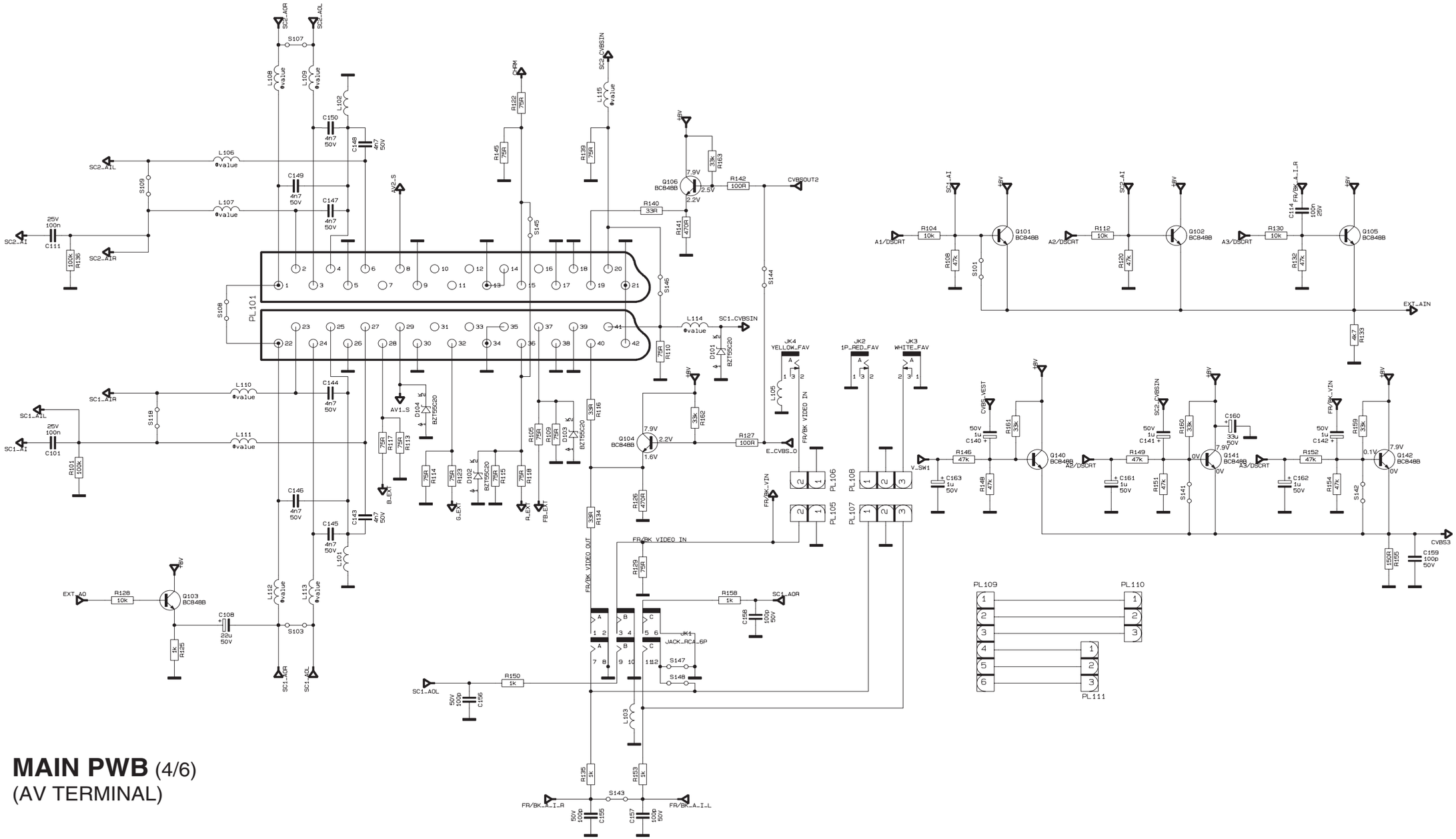


MAIN PWB CIRCUIT DIAGRAM [3/6]



MAIN PWB (3/6)
(STEREO SOUND)

VE-20124223 (AV-21KT1BEF/A, AV-21KT1SEF/A)
VE-20124225 (AV-21KT1BNF/A, AV-21KT1SNF/A)
VE-20121220 (AV-21KT1BPF/A, AV-21KT1SPF/A)
VE-20133635 (AV-21KT1BEF/B, AV-21KT1SEF/B)
VE-20129865 (AV-21KT1BNF/B, AV-21KT1SNF/B)
VE-20129808 (AV-21KT1BPF/B, AV-21KT1SPF/B)

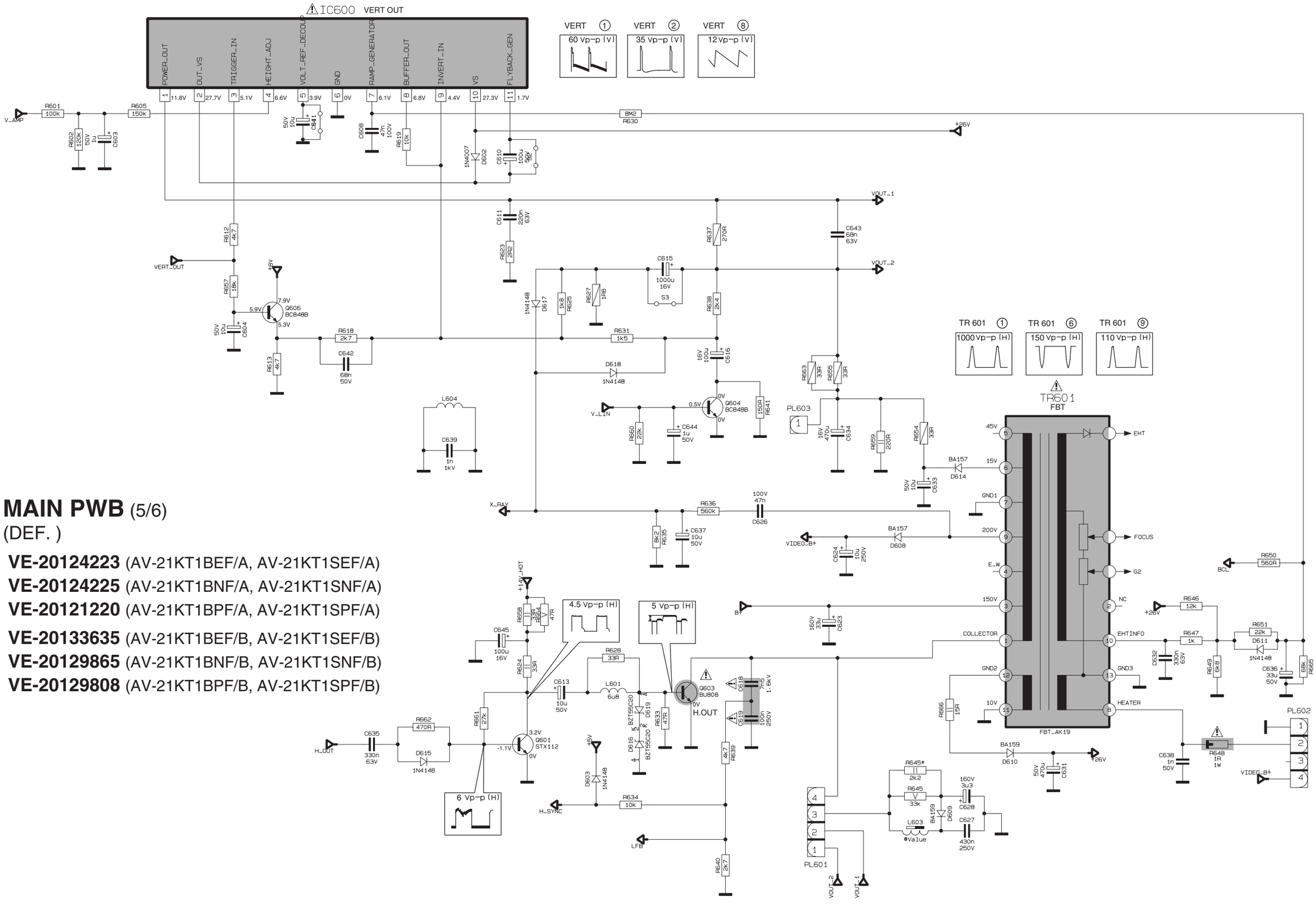


MAIN PWB (4/6)
(AV TERMINAL)

VE-20124223 (AV-21KT1BEF/A, AV-21KT1SEF/A)
VE-20124225 (AV-21KT1BNF/A, AV-21KT1SNF/A)
VE-20121220 (AV-21KT1BPF/A, AV-21KT1SPF/A)

VE-20133635 (AV-21KT1BEF/B, AV-21KT1SEF/B)
VE-20129865 (AV-21KT1BNF/B, AV-21KT1SNF/B)
VE-20129808 (AV-21KT1BPF/B, AV-21KT1SPF/B)

MAIN PWB CIRCUIT DIAGRAM [5/6]

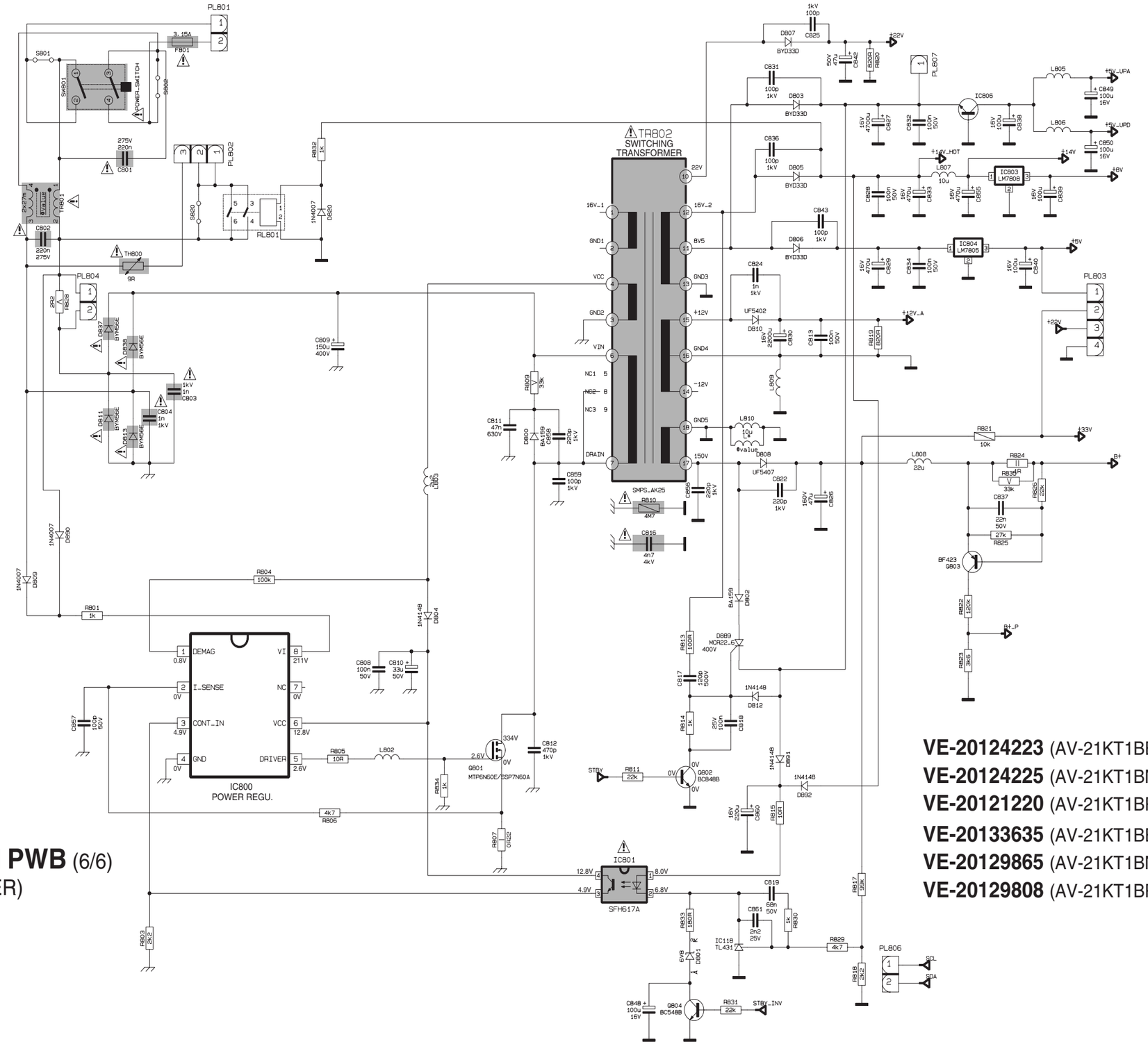


MAIN PWB (5/6)

(DEF.)

VE-20124223 (AV-21KT1BEF/A, AV-21KT1SEF/A)
VE-20124225 (AV-21KT1BNF/A, AV-21KT1SNF/A)
VE-20121220 (AV-21KT1BPF/A, AV-21KT1SPF/A)
VE-20133635 (AV-21KT1BEF/B, AV-21KT1SEF/B)
VE-20129865 (AV-21KT1BNF/B, AV-21KT1SNF/B)
VE-20129808 (AV-21KT1BPF/B, AV-21KT1SPF/B)

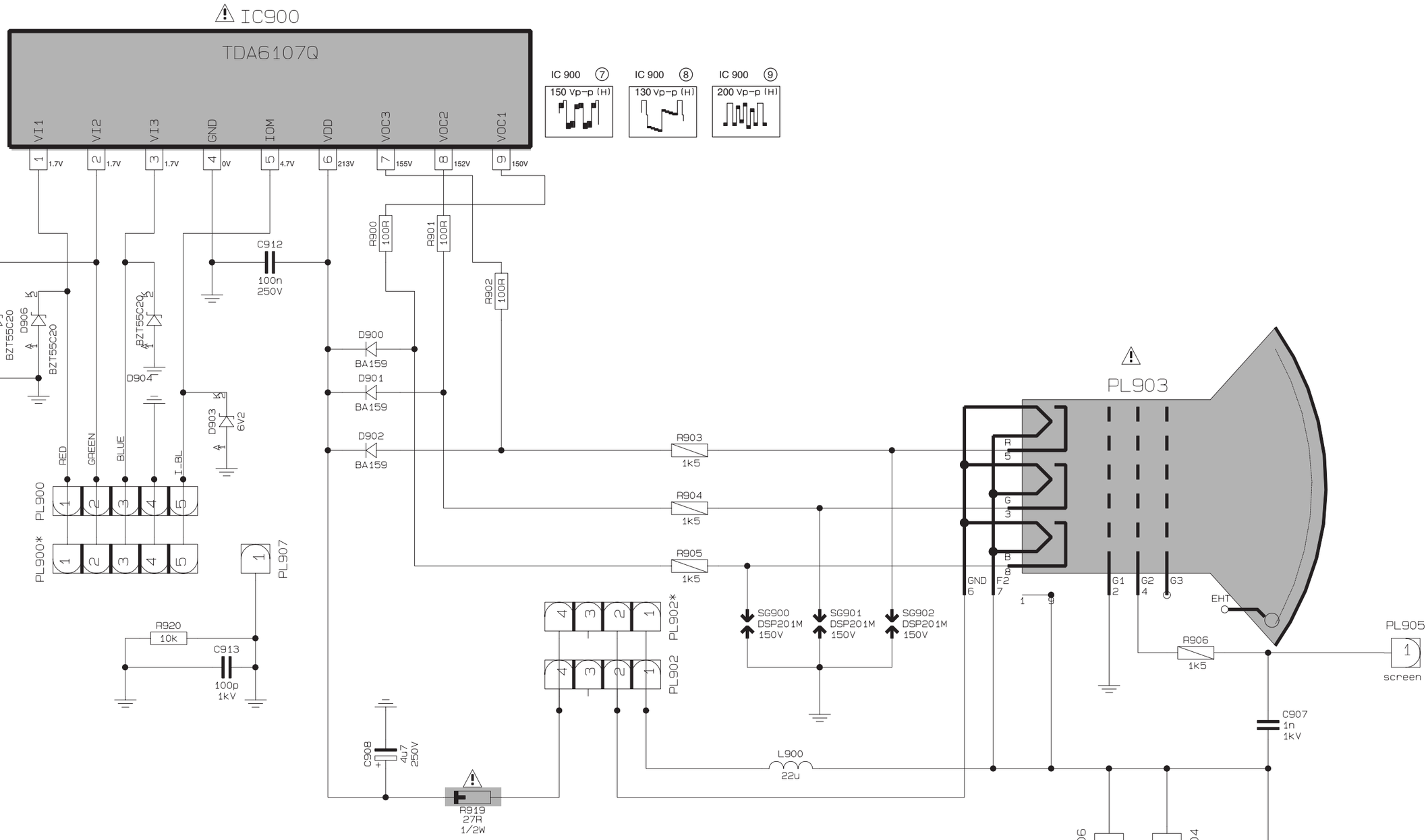
MAIN PWB CIRCUIT DIAGRAM [6/6]



MAIN PWB (6/6)
(POWER)

VE-20124223 (AV-21KT1BEF/A, AV-21KT1SEF/A)
VE-20124225 (AV-21KT1BNF/A, AV-21KT1SNF/A)
VE-20121220 (AV-21KT1BPF/A, AV-21KT1SPF/A)
VE-20133635 (AV-21KT1BEF/B, AV-21KT1SEF/B)
VE-20129865 (AV-21KT1BNF/B, AV-21KT1SNF/B)
VE-20129808 (AV-21KT1BPF/B, AV-21KT1SPF/B)

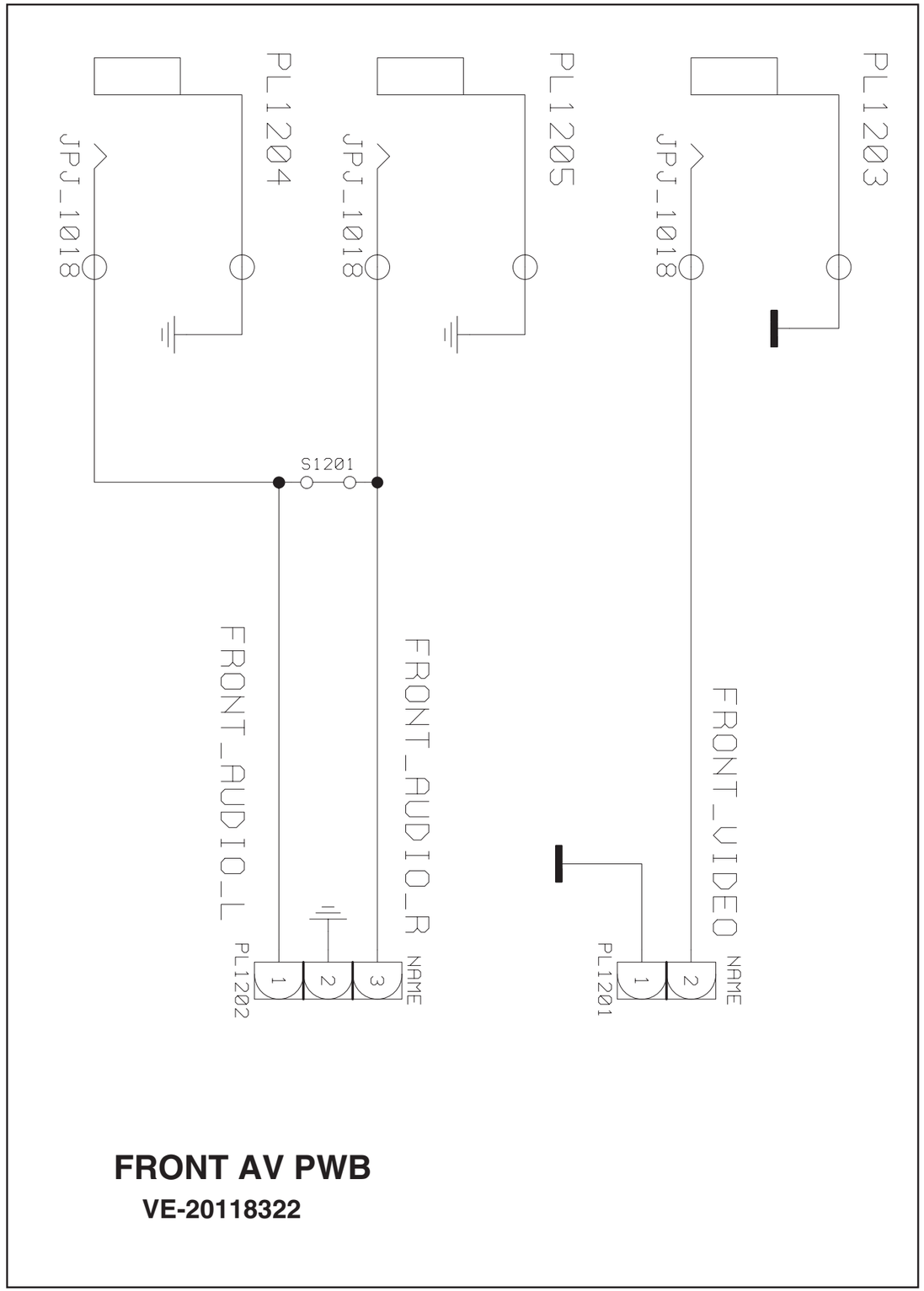
CRT SOCKET PWB CIRCUIT DIAGRAM



CRT SOCKET PWB (within MAIN PWB)

VE-20124223 (AV-21KT1BEF/A, AV-21KT1SEF/A)
VE-20124225 (AV-21KT1BNF/A, AV-21KT1SNF/A)
VE-20121220 (AV-21KT1BPF/A, AV-21KT1SPF/A)
VE-20133635 (AV-21KT1BEF/B, AV-21KT1SEF/B)
VE-20129865 (AV-21KT1BNF/B, AV-21KT1SNF/B)
VE-20129808 (AV-21KT1BPF/B, AV-21KT1SPF/B)

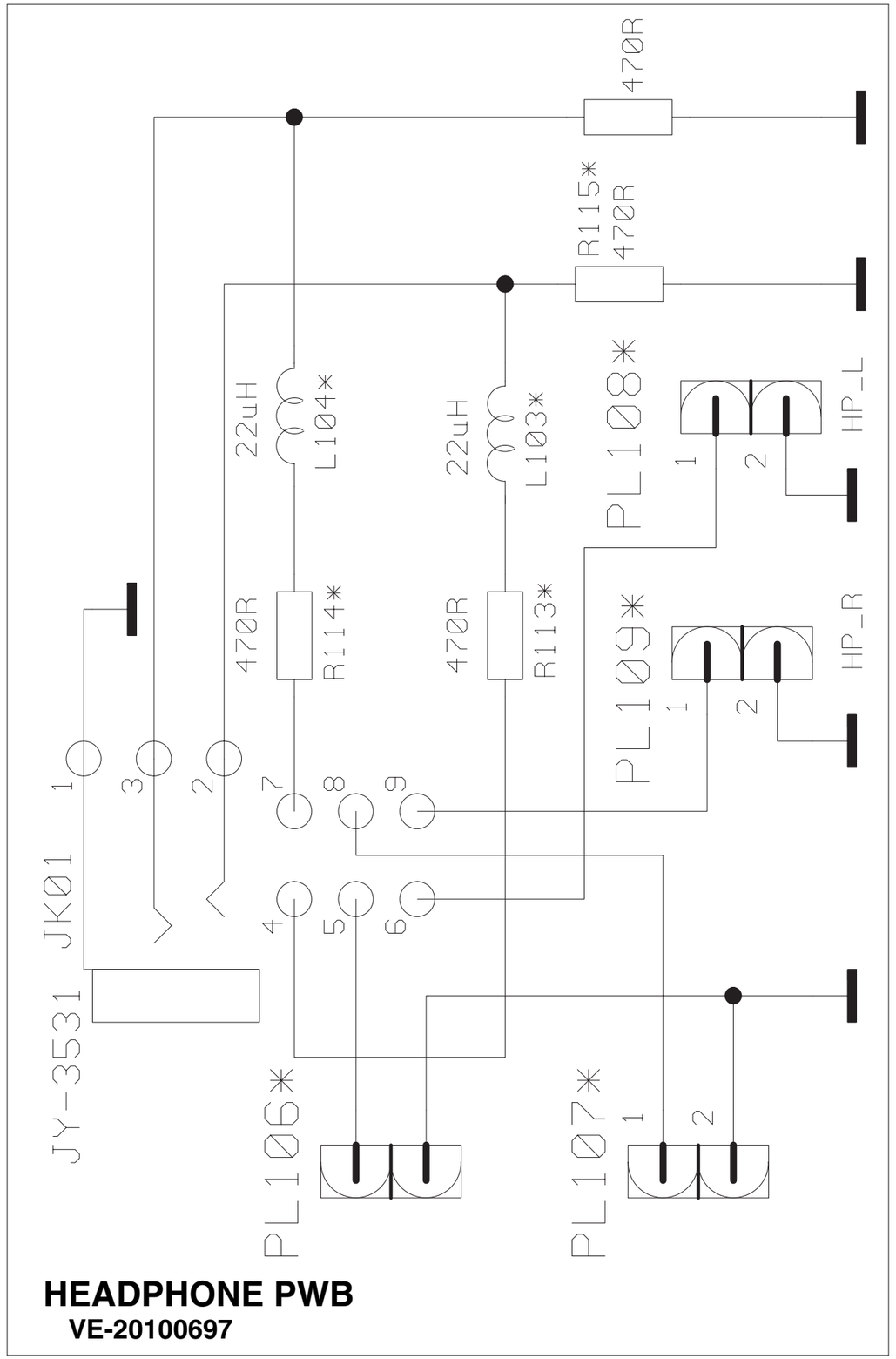
FRONT AV PWB CIRCUIT DIAGRAM



FRONT AV PWB

VE-20118322

HEADPHONE PWB CIRCUIT DIAGRAM



HEADPHONE PWB

VE-20100697

PATTERN DIAGRAMS *MAIN PWB PATTERN*

FRONT

(⊥)

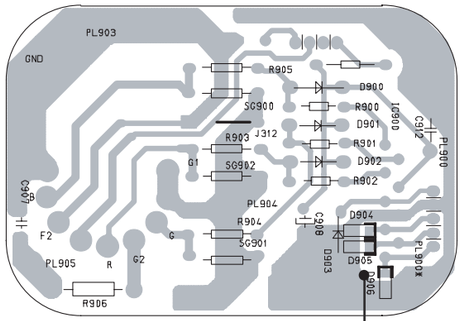
(⏚)

DANGER! LIVE PART

LIVE

ISOLATED

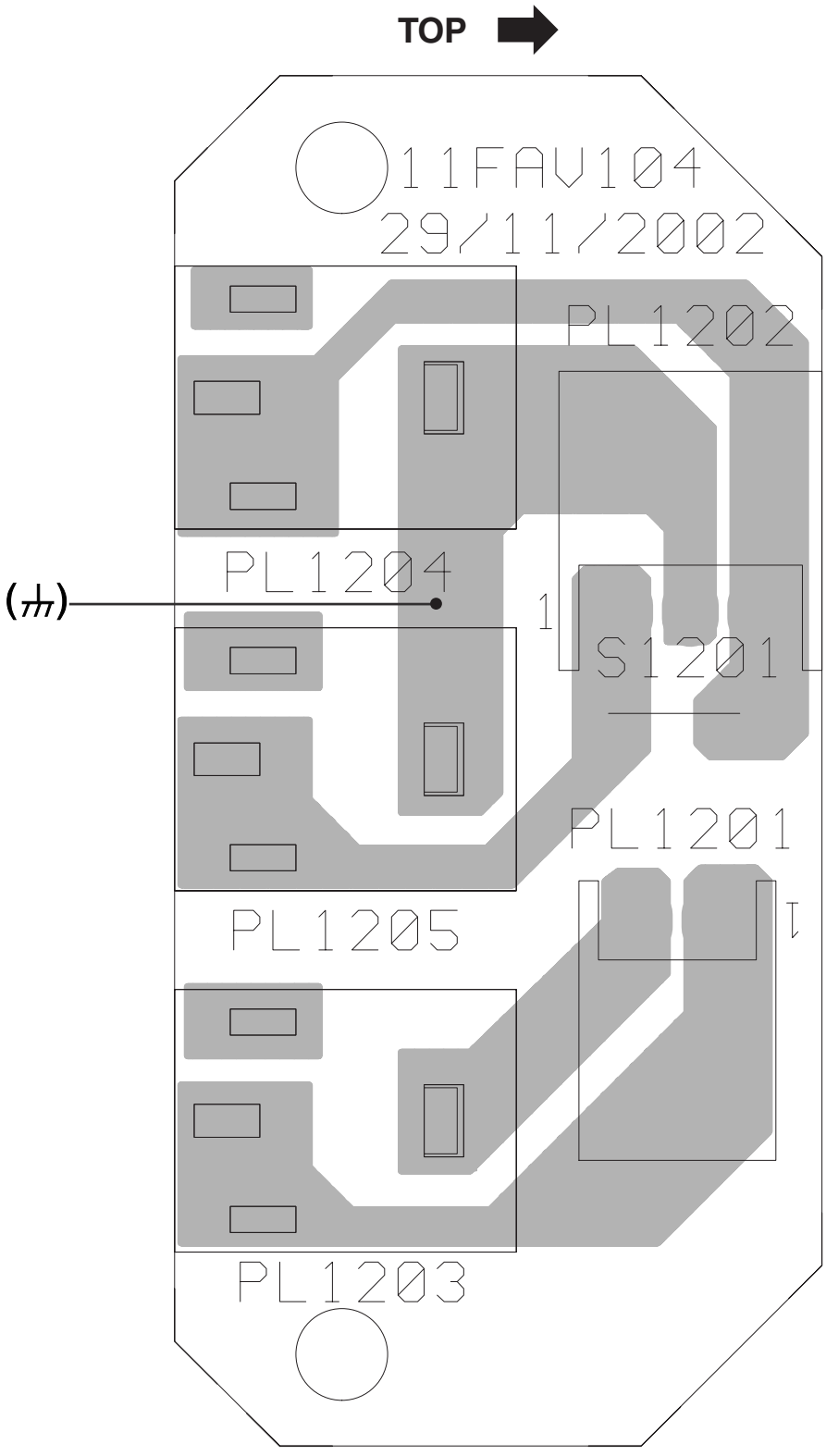
CRT SOCKET PWB PATTERN
(within MAIN PWB)

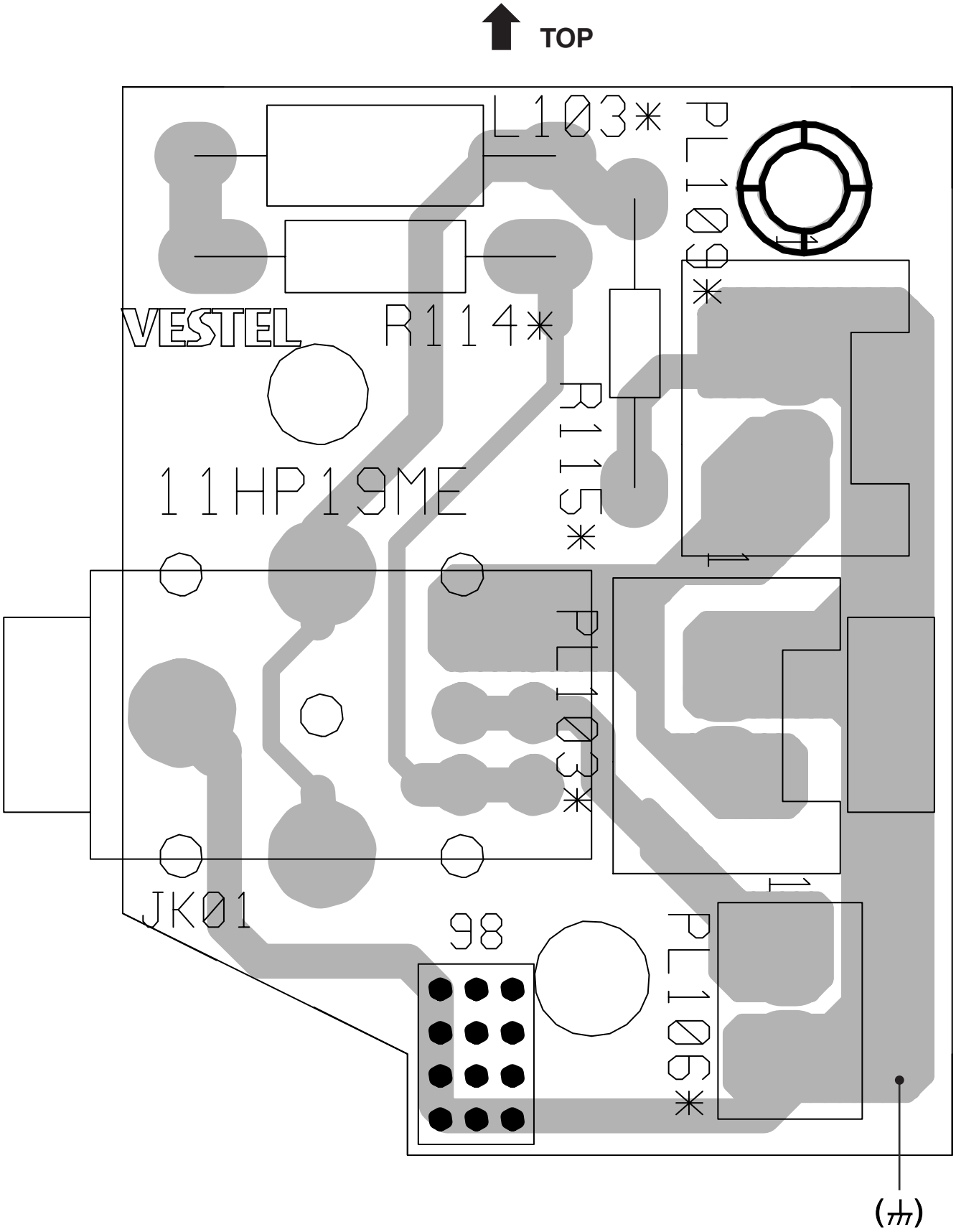


TOP

(⏚)

FRONT AV PWB PATTERN




TOP
L103*
PL106*
VESTEL
R114*
R115*
11HP19ME
PL103*
JK01
98
PL109*

PARTS LIST

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USING PW BOARD & REMOTE CONTROL UNIT

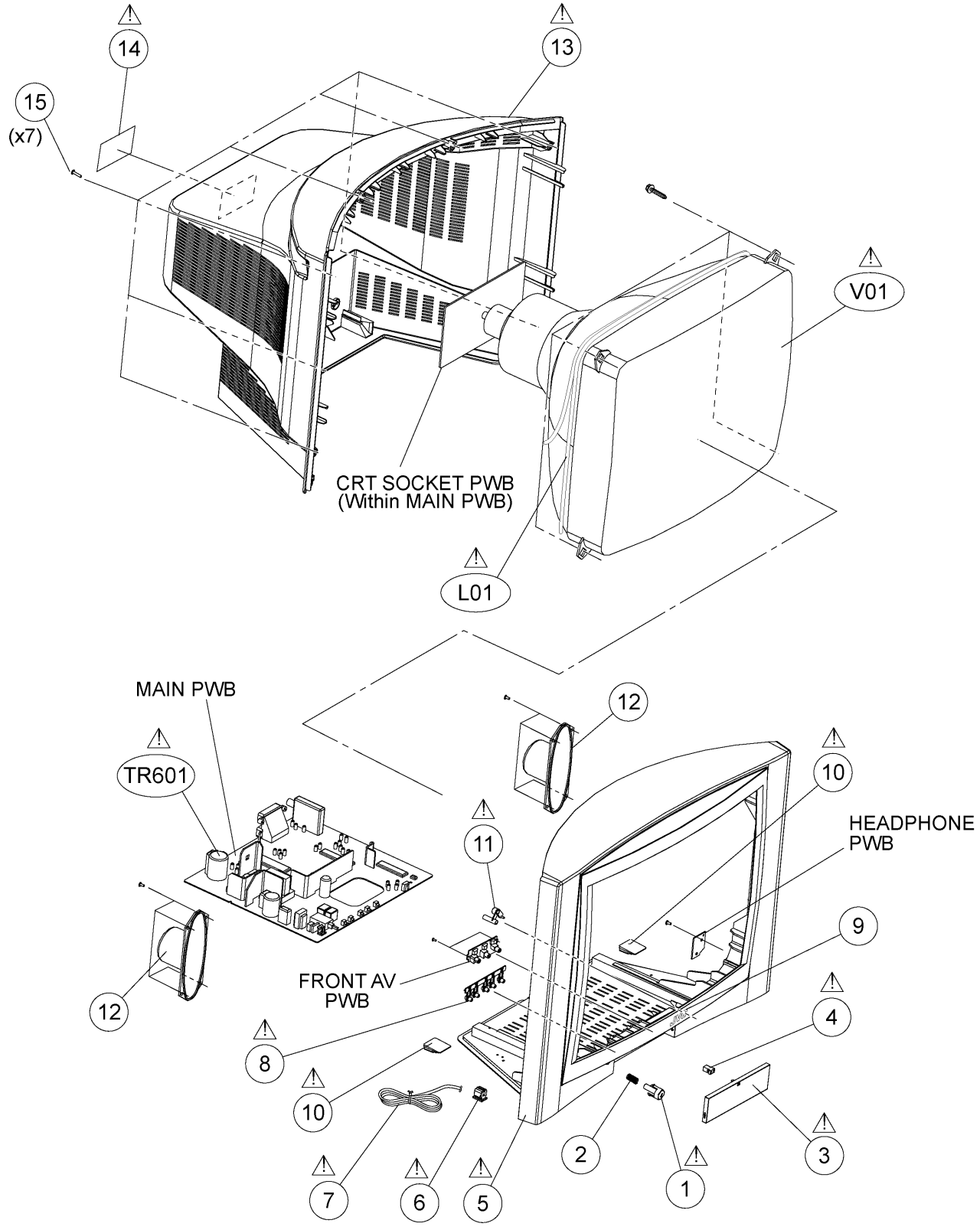
Model / PWB ASS'Y	AV-21KT1BEF AV-21KT1SEF	AV-21KT1BNF AV-21KT1SNF	AV-21KT1BPF AV-21KT1SPF
MAIN PWB [CRT "A" type]	VE-20124223	VE-20124225	VE-20121220
MAIN PWB [CRT "B" type]	VE-20133635	VE-20129865	VE-20129808
FRONT AV PWB	VE-20118322	←	←
HEADPHONE PWB	VE-20100697	←	←
REMOTE CONTROL UNIT	VE-30017763 (RM-C1100)	←	←

EXPLODED VIEW PARTS LIST

⚠	Ref.No.	Part No.	Part Name	Description
[AV-21KT1BEF, AV-21KT1BNF, AV-21KT1BPF : BLACK model]				
⚠	V01	VE-LG320X65	PICTURE TUBE (Inc. DY, PC MAGNET)	[CRT “A” type]
⚠	V01	VE-TH013X191	PICTURE TUBE (Inc. DY, PC MAGNET)	[CRT “B” type]
⚠	L01	VE-30002124	DEG COIL&EARTH	
⚠	TR601	VE-30017788	FB TRANSF.	Within MAIN PWB
⚠	1	VE-20112223	ON/OFF BUTTON	
	2	VE-35000013	SPRING (ON/OFF SWITCH)	
⚠	3	VE-20121172	CONTROL PANEL DOOR	
⚠	4	VE-40000026	EJECTOR CLIP-CLAP	
⚠	5	VE-20122422	FRONT CABINET	
⚠	6	VE-20004520	CABLE HOLDER	
⚠	7	VE-30016513	POWER CORD (2.2MT)	
⚠	8	VE-20112187	FUNCTION BUTTON	
	9	VE-40013592	LOGO JVC	
⚠	10	VE-20110931	BACK COVER HOLDER	(x2)
⚠	11	VE-20106493	LED&PRE-AMP LENS	
	12	VE-30001946	SPEAKER	(x2) 8R 15W (57*160)
⚠	13	VE-20112186	BACK COVER	
⚠	14	VE-20122445	LABEL	[AV-21KT1BEF]
⚠	14	VE-20122419	LABEL	[AV-21KT1BNF]
⚠	14	VE-20122423	LABEL	[AV-21KT1BPF]
	15	VE-35004572	SCREW	(x7)

⚠	Ref.No.	Part No.	Part Name	Description
[AV-21KT1SEF, AV-21KT1SNF, AV-21KT1SPF : SILVER model]				
⚠	V01	VE-LG320X65	PICTURE TUBE (Inc. DY, PC MAGNET)	[CRT “A” type]
⚠	V01	VE-TH013X191	PICTURE TUBE (Inc. DY, PC MAGNET)	[CRT “B” type]
⚠	L01	VE-30002124	DEG COIL&EARTH	
⚠	TR601	VE-30017788	FB TRANSF.	Within MAIN PWB
⚠	1	VE-20121207	ON/OFF BUTTON	
	2	VE-35000013	SPRING (ON/OFF SWITCH)	
⚠	3	VE-20121210	CONTROL PANEL DOOR	
⚠	4	VE-40000026	EJECTOR CLIP-CLAP	
⚠	5	VE-20122430	FRONT CABINET	
⚠	6	VE-20004520	CABLE HOLDER	
⚠	7	VE-30016513	POWER CORD (2.2MT)	
⚠	8	VE-20121204	FUNCTION BUTTON	
	9	VE-40013593	LOGO JVC	
⚠	10	VE-20110931	BACK COVER HOLDER	(x2)
⚠	11	VE-20106493	LED&PRE-AMP LENS	
	12	VE-30001946	SPEAKER	(x2) 8R 15W (57*160)
⚠	13	VE-20121199	BACK COVER	
⚠	14	VE-20122448	LABEL	[AV-21KT1SEF]
⚠	14	VE-20122431	LABEL	[AV-21KT1SNF]
⚠	14	VE-20122426	LABEL	[AV-21KT1SPF]
	15	VE-35004572	SCREW	(x7)

EXPLODED VIEW



PRINTED WIRING BOARD PARTS LIST

[AV-21KT1BEF/A / AV-21KT1SEF/A]

■ MAIN P.W. BOARD ASS'Y (VE-20124223)

⚠	Symbol No.	Part No.	Part Name	Description
	RESISTOR			
	J108	VE-30000712	CF R	1/4W 470R J
	J271	VE-30000712	CF R	1/4W 470R J
	R105	VE-30000792	CF R	1/4W 75R J
	R109	VE-30012713	SMD R	1/16W 75R J
	R110	VE-30012713	SMD R	1/16W 75R J
	R113	VE-30012713	SMD R	1/16W 75R J
	R114	VE-30012713	SMD R	1/16W 75R J
	R115	VE-30012713	SMD R	1/16W 75R J
	R116	VE-30012987	SMD R	1/16W 56R J
	R117	VE-30012713	SMD R	1/16W 75R J
	R118	VE-30000792	CF R	1/4W 75R J
	R122	VE-30000792	CF R	1/4W 75R J
	R123	VE-30000792	CF R	1/4W 75R J
	R126	VE-30012695	SMD R	1/16W 470R J
	R127	VE-30000459	CF R	1/4W 100R J
	R129	VE-30012713	SMD R	1/16W 75R J
	R135	VE-30012657	SMD R	1/16W 1K J
	R139	VE-30012713	SMD R	1/16W 75R J
	R140	VE-30012987	SMD R	1/16W 56R J
	R141	VE-30012695	SMD R	1/16W 470R J
	R142	VE-30000459	CF R	1/4W 100R J
	R145	VE-30012713	SMD R	1/16W 75R J
	R149	VE-30000752	CF R	1/4W 56K J
	R151	VE-30012696	SMD R	1/16W 47K J
	R152	VE-30000752	CF R	1/4W 56K J
	R153	VE-30012657	SMD R	1/16W 1K J
	R154	VE-30000723	CF R	1/4W 47K J
	R155	VE-30012649	SMD R	1/16W 150R J
	R201	VE-30012674	SMD R	1/16W 27K J
	R202	VE-30012692	SMD R	1/16W 4.7K J
	R204	VE-30000459	CF R	1/4W 100R J
	R206	VE-30000459	CF R	1/4W 100R J
	R301	VE-30000471	CF R	1/4W 10K J
	R302	VE-30000471	CF R	1/4W 10K J
	R303	VE-30012641	SMD R	1/16W 10K J
	R305	VE-30012641	SMD R	1/16W 10K J
	R306	VE-30012509	SMD R	1/16W 100K J
	R417	VE-30012510	SMD R	1/16W 100R J
	R418	VE-30012510	SMD R	1/16W 100R J
	R419	VE-30012649	SMD R	1/16W 150R J
	R420	VE-30000466	CF R	1/4W 1K J
	R421	VE-30012650	SMD R	1/16W 15K J
	R422	VE-30012659	SMD R	1/16W 2.2K J
	R423	VE-30012712	SMD R	1/16W 8.2K J
	R424	VE-30000712	CF R	1/4W 470R J
	R425	VE-30000583	CF R	1/4W 220R J
	R426	VE-30012659	SMD R	1/16W 2.2K J
	R427	VE-30012674	SMD R	1/16W 27K J
	R428	VE-30000792	CF R	1/4W 75R J
	R431	VE-30012674	SMD R	1/16W 27K J
	R432	VE-30012657	SMD R	1/16W 1K J
	R433	VE-30012667	SMD R	1/16W 220K J
	R437	VE-30000466	CF R	1/4W 1K J
	R438	VE-30000466	CF R	1/4W 1K J
	R439	VE-30012657	SMD R	1/16W 1K J
	R440	VE-30012714	SMD R	1/16W 820R J
	R441	VE-30012656	SMD R	1/16W 18K J
	R442	VE-30000466	CF R	1/4W 1K J
	R446	VE-30012714	SMD R	1/16W 820R J
	R447	VE-30012714	SMD R	1/16W 820R J
	R448	VE-30012683	SMD R	1/16W 330K J
	R449	VE-30012662	SMD R	1/16W 2.7K J
	R450	VE-30000712	CF R	1/4W 470R J
	R455	VE-30012650	SMD R	1/16W 15K J
	R458	VE-30012662	SMD R	1/16W 2.7K J
	R459	VE-30012510	SMD R	1/16W 100R J
	R460	VE-30012510	SMD R	1/16W 100R J
	R461	VE-30012510	SMD R	1/16W 100R J
	R463	VE-30012692	SMD R	1/16W 4.7K J
	R464	VE-30012650	SMD R	1/16W 15K J
	R469	VE-30000670	CF R	1/4W 330K J
	R470	VE-30012683	SMD R	1/16W 330K J
	R474	VE-30012692	SMD R	1/16W 4.7K J
	R475	VE-30012510	SMD R	1/16W 100R J
	R476	VE-30012707	SMD R	1/16W 680R J
	R477	VE-30014022	SMD R	1/16W 47R J
	R502	VE-30012695	SMD R	1/16W 470R J
	R503	VE-30012707	SMD R	1/16W 680R J
	R504	VE-30012679	SMD R	1/16W 3.9K J
	R505	VE-30012673	SMD R	1/16W 270R J
	R506	VE-30012506	SMD R	1/16W 1.5K J
	R507	VE-30012657	SMD R	1/16W 1K J
	R508	VE-30000706	CF R	1/4W 47R J
	R509	VE-30012641	SMD R	1/16W 10K J
	R510	VE-30000622	CF R	1/4W 270R J
	R511	VE-30012657	SMD R	1/16W 1K J
	R512	VE-30012504	SMD R	1/16W 1.2K J
	R513	VE-30000459	CF R	1/4W 100R J
	R514	VE-30000459	CF R	1/4W 100R J
	R515	VE-30012692	SMD R	1/16W 4.7K J
	R516	VE-30012692	SMD R	1/16W 4.7K J

⚠	Symbol No.	Part No.	Part Name	Description
	RESISTOR			
	R517	VE-30012692	SMD R	1/16W 4.7K J
	R518	VE-30000471	CF R	1/4W 10K J
	R519	VE-30012698	SMD R	1/16W 5.6K J
	R525	VE-30000583	CF R	1/4W 220R J
	R526	VE-30012641	SMD R	1/16W 10K J
	R527	VE-30000718	CF R	1/4W 4.7K J
	R528	VE-30012698	SMD R	1/16W 5.6K J
	R530	VE-30012698	SMD R	1/16W 5.6K J
	R531	VE-30012692	SMD R	1/16W 4.7K J
	R532	VE-30012659	SMD R	1/16W 2.2K J
	R533	VE-30012644	SMD R	1/16W 12K J
	R534	VE-30000526	CF R	1/4W 1.5K J
	R535	VE-30000718	CF R	1/4W 4.7K J
	R536	VE-30000471	CF R	1/4W 10K J
	R537	VE-30012641	SMD R	1/16W 10K J
	R538	VE-30012698	SMD R	1/16W 5.6K J
	R539	VE-30012659	SMD R	1/16W 2.2K J
	R540	VE-30012644	SMD R	1/16W 12K J
	R545	VE-30012644	SMD R	1/16W 12K J
	R546	VE-30000560	CF R	1/4W 1.8K J
	R547	VE-30012659	SMD R	1/16W 2.2K J
	R548	VE-30012641	SMD R	1/16W 10K J
	R555	VE-30012659	SMD R	1/16W 2.2K J
	R556	VE-30012657	SMD R	1/16W 1K J
	R559	VE-30000470	CF R	1/2W 10K J
	R560	VE-30012669	SMD R	1/16W 22K J
	R561	VE-30012692	SMD R	1/16W 4.7K J
	R562	VE-30000471	CF R	1/4W 10K J
	R564	VE-30012641	SMD R	1/16W 10K J
	R601	VE-30000477	CF R	1/4W 100K J
	R602	VE-30000536	CF R	1/4W 150K J
	R605	VE-30000504	CF R	1/4W 120K J
	R612	VE-30012692	SMD R	1/16W 4.7K J
	R613	VE-30012692	SMD R	1/16W 4.7K J
	R618	VE-30012662	SMD R	1/16W 2.7K J
	R619	VE-30012641	SMD R	1/16W 10K J
	R623	VE-30000607	CF R	1/4W 2.2R J
	R624	VE-30001161	MO R	2W 39R J
	R625	VE-30000900	MF R	1/4W 1.8K J
	R627	VE-30000910	MF R	1/2W 1.8R G
	R628	VE-30000650	CF R	1/4W 33R J
	R630	VE-30000828	CF R	1/4W 8.2M J
	R631	VE-30000885	MF R	1/4W 1.5K J
	R633	VE-30000706	CF R	1/4W 47R J
	R634	VE-30012641	SMD R	1/16W 10K J
	R637	VE-30000621	CF R	1/2W 270R J
	R638	VE-30000612	CF R	1/4W 2.4K J
	R639	VE-30000718	CF R	1/4W 4.7K J
	R640	VE-30012662	SMD R	1/16W 2.7K J
	R641	VE-30012649	SMD R	1/16W 150R J
	R645	VE-30016868	MO R	3W 2.2K J (RADIAL)
	R646	VE-30000500	CF R	1/4W 12K J
	R647	VE-30000466	CF R	1/4W 1K J
⚠	R648	VE-30001246	FUSE R	1W 0.47R J
	R649	VE-30000775	CF R	1/4W 6.8K J
	R650	VE-30000744	CF R	1/4W 560R J
	R654	VE-30000705	CF R	1/2W 47R J
	R655	VE-30000705	CF R	1/2W 47R J
	R657	VE-30012656	SMD R	1/16W 18K J
	R658	VE-30001161	MO R	2W 39R J
	R659	VE-30001123	MO R	2W 220R J
	R660	VE-30012669	SMD R	1/16W 22K J
	R661	VE-30012674	SMD R	1/16W 27K J
	R662	VE-30000712	CF R	1/4W 470R J
	R663	VE-30000459	CF R	1/4W 100R J
	R665	VE-30012708	SMD R	1/16W 68K J
	R701	VE-30000459	CF R	1/4W 100R J
	R703	VE-30000459	CF R	1/4W 100R J
	R705	VE-30000459	CF R	1/4W 100R J
	R715	VE-30012695	SMD R	1/16W 470R J
	R717	VE-30012695	SMD R	1/16W 470R J
	R719	VE-30012657	SMD R	1/16W 1K J
	R721	VE-30000459	CF R	1/4W 100R J
	R722	VE-30000459	CF R	1/4W 100R J
	R723	VE-30012510	SMD R	1/16W 100R J
	R724	VE-30012510	SMD R	1/16W 100R J
	R725	VE-30012657	SMD R	1/16W 1K J
	R726	VE-30012657	SMD R	1/16W 1K J
	R727	VE-30012657	SMD R	1/16W 1K J
	R728	VE-30012657	SMD R	1/16W 1K J
	R729	VE-30012657	SMD R	1/16W 1K J
	R730	VE-30012657	SMD R	1/16W 1K J
	R731	VE-30012657	SMD R	1/16W 1K J
	R801	VE-30000982	MF R	1/4W 4.7K J
	R803	VE-30012692	SMD R	1/16W 4.7K J
	R804	VE-30000504	CF R	1/4W 120K J
	R805	VE-30000843	MF R	1/4W 10R J
	R806	VE-30000982	MF R	1/4W 4.7K J
	R807	VE-30001130	MO R	1/2W 0.22R J
	R809	VE-30007784	MO R	5W 33K J(RADIAL)
⚠	R810	VE-30001257	MG R	1/2W 4.7M J

[AV-21KT1BEF/A / AV-21KT1SEF/A]

RESISTOR

⚠	Symbol No.	Part No.	Part Name	Description
	R811	VE-30000594	CF R	1/4W 22K J
	R813	VE-30000718	CF R	1/4W 4.7K J
	R814	VE-30012662	SMD R	1/16W 2.7K J
	R815	VE-30000452	CF R	1/4W 10R J
	R817	VE-30001037	MF R	1/4W 99K F
	R818	VE-30000925	MF R	1/4W 2.2K F
	R819	VE-30000810	CF R	1/4W 820R J
	R821	VE-30000470	CF R	1/2W 10K J
	R828	VE-30001260	WW R	5W 2.2R J RAD.
	R829	VE-30000718	CF R	1/4W 4.7K J
	R830	VE-30012657	SMD R	1/16W 1K J
	R831	VE-30012669	SMD R	1/16W 22K J
	R835	VE-30016802	WW R	5W 5.6R J RAD.
	R903	VE-30000886	MF R	1/4W 1.5K F
	R904	VE-30000886	MF R	1/4W 1.5K F
	R905	VE-30000886	MF R	1/4W 1.5K F
	R906	VE-30000525	CF R	1/2W 1.5K J
⚠	R919	VE-30001207	FUSE R	1/4W 10R J

CAPACITOR

	C141	VE-30000384	EL CAP.	2.2UF 50V M
	C142	VE-30000384	EL CAP.	2.2UF 50V M
	C143	VE-30012583	SMD CAP.	1.5NF 50V K
	C144	VE-30012583	SMD CAP.	1.5NF 50V K
	C145	VE-30012589	SMD CAP.	4.7NF 50V K
	C147	VE-30012583	SMD CAP.	1.5NF 50V K
	C148	VE-30012583	SMD CAP.	1.5NF 50V K
	C150	VE-30012589	SMD CAP.	4.7NF 50V K
	C155	VE-30012560	SMD CAP.	100PF 50V J
	C157	VE-30012560	SMD CAP.	100PF 50V J
	C159	VE-30012560	SMD CAP.	100PF 50V J
	C160	VE-30000387	EL CAP.	33UF 50V M
	C161	VE-30000362	EL CAP.	1UF 50V M
	C162	VE-30000362	EL CAP.	1UF 50V M
	C201	VE-30000400	EL CAP.	47UF 50V M
	C205	VE-30000371	EL CAP.	22UF 50V M
	C206	VE-30012610	SMD CAP.	10NF 50V J
	C207	VE-30012610	SMD CAP.	10NF 50V J
	C300	VE-30000400	EL CAP.	47UF 50V M
	C302	VE-30000092	MKT CAP.	220NF 63V J
	C305	VE-30000092	MKT CAP.	220NF 63V J
	C404	VE-30000225	CER CAP.	220PF 50V J SL
	C408	VE-30012586	SMD CAP.	22NF 50V K
	C409	VE-30000345	EL CAP.	10UF 50V M
	C410	VE-30000384	EL CAP.	2.2UF 50V M
	C411	VE-30000345	EL CAP.	10UF 50V M
	C412	VE-30012586	SMD CAP.	22NF 50V K
	C413	VE-30000362	EL CAP.	1UF 50V M
	C414	VE-30012585	SMD CAP.	2.2NF 50V K R
	C415	VE-30012581	SMD CAP.	1NF 50V K R
	C416	VE-30000362	EL CAP.	1UF 50V M
	C417	VE-30000362	EL CAP.	1UF 50V M
	C418	VE-30012586	SMD CAP.	22NF 50V K
	C419	VE-30000413	EL CAP.	4.7UF 50V M
	C420	VE-30000100	MKT CAP.	330NF 63V J
	C422	VE-30000400	EL CAP.	47UF 50V M
	C423	VE-30000400	EL CAP.	47UF 50V M
	C424	VE-30000345	EL CAP.	10UF 50V M
	C425	VE-30012586	SMD CAP.	22NF 50V K
	C426	VE-30016654	SMD CAP.	100NF 16V K R
	C427	VE-30016654	SMD CAP.	100NF 16V K R
	C429	VE-30012589	SMD CAP.	4.7NF 50V K
	C431	VE-30000362	EL CAP.	1UF 50V M
	C432	VE-30012586	SMD CAP.	22NF 50V K
	C433	VE-30000345	EL CAP.	10UF 50V M
	C434	VE-30016654	SMD CAP.	100NF 16V K R
	C435	VE-30016654	SMD CAP.	100NF 16V K R
	C436	VE-30000109	MKT CAP.	470NF 63V J
	C437	VE-30016654	SMD CAP.	100NF 16V K R
	C438	VE-30016654	SMD CAP.	100NF 16V K R
	C439	VE-30016654	SMD CAP.	100NF 16V K R
	C440	VE-30000074	MKT CAP.	100NF 63V J
	C441	VE-30012582	SMD CAP.	10NF 50V K R
	C442	VE-30000109	MKT CAP.	470NF 63V J
	C443	VE-30000362	EL CAP.	1UF 50V M
	C444	VE-30000384	EL CAP.	2.2UF 50V M
	C448	VE-30012586	SMD CAP.	22NF 50V K
	C449	VE-30012567	SMD CAP.	220PF 50V J
	C451	VE-30012581	SMD CAP.	1NF 50V K R
	C452	VE-30012581	SMD CAP.	1NF 50V K R
	C454	VE-30012573	SMD CAP.	47PF 50V J
	C455	VE-30012573	SMD CAP.	47PF 50V J
	C456	VE-30012573	SMD CAP.	47PF 50V J
	C459	VE-30012575	SMD CAP.	4.7PF 50V C CH
	C460	VE-30000345	EL CAP.	10UF 50V M
	C502	VE-30000396	EL CAP.	47UF 16V M
	C504	VE-30012586	SMD CAP.	22NF 50V K
	C505	VE-30012589	SMD CAP.	4.7NF 50V K
	C510	VE-30012586	SMD CAP.	22NF 50V K
	C511	VE-30012566	SMD CAP.	22PF 50V J
	C513	VE-30000371	EL CAP.	22UF 50V M
	C514	VE-30012586	SMD CAP.	22NF 50V K
	C515	VE-30012579	SMD CAP.	82PF 50V J
	C517	VE-30012586	SMD CAP.	22NF 50V K
	C518	VE-30012586	SMD CAP.	22NF 50V K
	C519	VE-30000352	EL CAP.	100UF 16V M

CAPACITOR

⚠	Symbol No.	Part No.	Part Name	Description
	C520	VE-30012560	SMD CAP.	100PF 50V J
	C521	VE-30012562	SMD CAP.	15PF 50V J
	C522	VE-30012562	SMD CAP.	15PF 50V J
	C523	VE-30012585	SMD CAP.	2.2NF 50V K R
	C525	VE-30012566	SMD CAP.	22PF 50V J
	C526	VE-30012586	SMD CAP.	22NF 50V K
	C530	VE-30012589	SMD CAP.	4.7NF 50V K
	C531	VE-30000384	EL CAP.	2.2UF 50V M
	C532	VE-30012586	SMD CAP.	22NF 50V K
	C536	VE-30000074	MKT CAP.	100NF 63V J
	C541	VE-30000109	MKT CAP.	470NF 63V J
	C542	VE-30000205	CER CAP.	150PF 50V J SL
	C543	VE-30000205	CER CAP.	150PF 50V J SL
	C545	VE-30012607	SMD CAP.	150PF 50V J
	C603	VE-30000384	EL CAP.	2.2UF 50V M
	C604	VE-30000345	EL CAP.	10UF 50V M
	C608	VE-30000107	MKT CAP.	47NF 250V J
	C610	VE-30000355	EL CAP.	100UF 50V M
	C611	VE-30000092	MKT CAP.	220NF 63V J
	C613	VE-30016085	EL CAP.	10UF 63V
	C615	VE-30000359	EL CAP.	1000UF 16V M
	C616	VE-30000352	EL CAP.	100UF 16V M
⚠	C618	VE-30000136	MKP CAP.	12NF 2000V %3.5
⚠	C619	VE-30000131	MKP CAP.	100NF 250V J
	C623	VE-30000404	EL CAP.	47UF 160V M (HR)
	C624	VE-30000350	EL CAP.	10UF 250V M
	C627	VE-30000154	MKP CAP.	390NF 250V J
	C628	VE-30018380	EL CAP.	3.3UF 160V M
	C631	VE-30000410	EL CAP.	470UF 50V M
	C632	VE-30000100	MKT CAP.	330NF 63V J
	C633	VE-30016085	EL CAP.	10UF 63V
	C634	VE-30000409	EL CAP.	470UF 25V M
	C635	VE-30000100	MKT CAP.	330NF 63V J
	C636	VE-30000387	EL CAP.	33UF 50V M
	C638	VE-30012581	SMD CAP.	1NF 50V K R
	C639	VE-30000433	CER CAP.	1NF 1KV M B
	C641	VE-30000345	EL CAP.	10UF 50V M
	C642	VE-30012609	SMD CAP.	68NF 50V K
	C643	VE-30000116	MKT CAP.	68NF 63V J
	C644	VE-30000362	EL CAP.	1UF 50V M
	C645	VE-30000352	EL CAP.	100UF 16V M
	C700	VE-30012565	SMD CAP.	1.8PF 50V J CH
	C701	VE-30012565	SMD CAP.	1.8PF 50V J CH
	C702	VE-30012573	SMD CAP.	47PF 50V J
	C703	VE-30012573	SMD CAP.	47PF 50V J
	C704	VE-30012576	SMD CAP.	56PF 50V J CH
	C705	VE-30000345	EL CAP.	10UF 50V M
	C706	VE-30000345	EL CAP.	10UF 50V M
	C707	VE-30012573	SMD CAP.	47PF 50V J
	C708	VE-30012586	SMD CAP.	22NF 50V K
	C710	VE-30012573	SMD CAP.	47PF 50V J
	C712	VE-30000345	EL CAP.	10UF 50V M
	C713	VE-30016654	SMD CAP.	100NF 16V K R
	C714	VE-30016654	SMD CAP.	100NF 16V K R
	C716	VE-30016654	SMD CAP.	100NF 16V K R
	C717	VE-30016654	SMD CAP.	100NF 16V K R
	C718	VE-30016654	SMD CAP.	100NF 16V K R
	C719	VE-30012586	SMD CAP.	22NF 50V K
	C720	VE-30000345	EL CAP.	10UF 50V M
	C721	VE-30016654	SMD CAP.	100NF 16V K R
	C723	VE-30016654	SMD CAP.	100NF 16V K R
	C724	VE-30000345	EL CAP.	10UF 50V M
	C729	VE-30016654	SMD CAP.	100NF 16V K R
	C730	VE-30000393	EL CAP.	3.3UF 50V M
	C733	VE-30000345	EL CAP.	10UF 50V M
	C734	VE-30000345	EL CAP.	10UF 50V M
	C735	VE-30012586	SMD CAP.	22NF 50V K
	C736	VE-30000345	EL CAP.	10UF 50V M
	C737	VE-30000371	EL CAP.	22UF 50V M
	C738	VE-30000371	EL CAP.	22UF 50V M
	C739	VE-30000371	EL CAP.	22UF 50V M
	C740	VE-30000371	EL CAP.	22UF 50V M
	C741	VE-30012585	SMD CAP.	2.2NF 50V K R
	C742	VE-30012585	SMD CAP.	2.2NF 50V K R
	C748	VE-30012560	SMD CAP.	100PF 50V J
⚠	C801	VE-30000094	MKT CAP.	220NF AC275V M
⚠	C802	VE-30000094	MKT CAP.	220NF AC275V M
⚠	C803	VE-30000433	CER CAP.	1NF 1KV M B
⚠	C804	VE-30000433	CER CAP.	1NF 1KV M B
	C808	VE-30000295	CER CAP.	100NF 50V Z F
	C809	VE-30000418	EL CAP.	100UF 400V M
	C810	VE-30000387	EL CAP.	33UF 50V M
	C811	VE-30000161	MKP CAP.	47NF 630V J
	C812	VE-30009208	CER CAP.	470PF 1KV K (PULSE)
	C813	VE-30000295	CER CAP.	100NF 50V Z F
⚠	C816	VE-30000447	CER CAP.	4.7NF 4KV M E
	C817	VE-30000198	CER CAP.	120PF 500V J SL
	C818	VE-30016654	SMD CAP.	100NF 16V K R
	C819	VE-30012609	SMD CAP.	68NF 50V K
	C822	VE-30007308	CER CAP.	220PF 1KV K (PULSE)
	C824	VE-30000433	CER CAP.	1NF 1KV M B
	C826	VE-30000404	EL CAP.	47UF 160V M (HR)
	C827	VE-30000411	EL CAP.	4700UF 16V M
	C828	VE-30000295	CER CAP.	100NF 50V Z F
	C829	VE-30000407	EL CAP.	470UF 16V M
	C830	VE-30000382	EL CAP.	2200UF 16V M
	C831	VE-30000431	CER CAP.	100PF 1KV M
	C832	VE-30000295	CER CAP.	100NF 50V Z F
	C833	VE-30000407	EL CAP.	470UF 16V M

[AV-21KT1BEF/A / AV-21KT1SEF/A]

⚠	Symbol No.	Part No.	Part Name	Description
	CAPACITOR			
	C834	VE-30000295	CER CAP.	100NF 50V Z F
	C836	VE-30000431	CER CAP.	100PF 1KV M
	C838	VE-30000352	EL CAP.	100UF 16V M
	C839	VE-30000352	EL CAP.	100UF 16V M
	C840	VE-30000352	EL CAP.	100UF 16V M
	C843	VE-30000431	CER CAP.	100PF 1KV M
	C848	VE-30000352	EL CAP.	100UF 16V M
	C849	VE-30000352	EL CAP.	100UF 16V M
	C850	VE-30000352	EL CAP.	100UF 16V M
	C855	VE-30000407	EL CAP.	470UF 16V M
	C856	VE-30007308	CER CAP.	220PF 1KV K (PULSE)
	C857	VE-30012573	SMD CAP.	47PF 50V J
	C858	VE-30007308	CER CAP.	220PF 1KV K (PULSE)
	C907	VE-30000434	CER CAP.	1NF 2KV K B
	C908	VE-30000415	EL CAP.	4.7UF 250V M
	C912	VE-30000075	MKT CAP.	100NF 250V K (DC)
	NOT	VE-30000367	EL CAP.	1UF 250V M
	X403	VE-30000074	MKT CAP.	100NF 63V J
	TRANSF			
⚠	TR601	VE-30017788	FB TRANSF.	
⚠	TR802	VE-30013683	SMPS TRANSF.	
	COIL			
	J282	VE-30001992	FIXED COIL	10UH
	L201	VE-30001979	FIXED COIL	1UH
	L402	VE-30001992	FIXED COIL	10UH
	L404	VE-30001990	FIXED COIL	6.8UH
	L405	VE-30014048	VIF ADJ COIL	44MHZ
	L601	VE-30001990	FIXED COIL	6.8UH
	L603	VE-30002149	LINEARITY COIL	50UH
	L702	VE-30001996	FIXED COIL	22UH
	L703	VE-30001979	FIXED COIL	1UH
	L704	VE-30001979	FIXED COIL	1UH
	L803	VE-30001984	FIXED COIL	2.2UH
	L807	VE-30001992	FIXED COIL	10UH
	L808	VE-30002011	FIXED COIL	150UH
	L810	VE-30001992	FIXED COIL	10UH
	DIODE			
	D101	VE-30007760	SMD ZENER DIODE	
	D102	VE-30007760	SMD ZENER DIODE	
	D103	VE-30007760	SMD ZENER DIODE	
	D104	VE-30007762	SMD ZENER DIODE	
	D106	VE-30001377	UZT ZENER DIODE	33V
	D300	VE-30001285	SMD DIODE	
	D301	VE-30001285	SMD DIODE	
	D405	VE-30007763	SMD ZENER DIODE	
	D407	VE-30001284	DIODE	0.15A/100V 0.5A
	D408	VE-30001285	SMD DIODE	
	D409	VE-30007760	SMD ZENER DIODE	
	D410	VE-30007760	SMD ZENER DIODE	
	D411	VE-30007760	SMD ZENER DIODE	
	D501	VE-30001285	SMD DIODE	
	D505	VE-30001285	SMD DIODE	
	D506	VE-30001284	DIODE	0.15A/100V 0.5A
	D509	VE-30001279	LED(RED/GREEN)	
	D512	VE-30001285	SMD DIODE	
	D513	VE-30001339	ZENER DIODE	3.9V
	D602	VE-30001329	DIODE	1A/1000V 30A
	D603	VE-30001285	SMD DIODE	
	D608	VE-30001318	DIODE	1A/800V 20A
	D609	VE-30001318	DIODE	1A/800V 20A
	D610	VE-30001318	DIODE	1A/800V 20A
	D611	VE-30001285	SMD DIODE	
	D614	VE-30001318	DIODE	1A/800V 20A
	D615	VE-30001285	SMD DIODE	
	D616	VE-30009699	SMD ZENER DIODE	
	D619	VE-30009699	SMD ZENER DIODE	
	D700	VE-30001285	SMD DIODE	
	D701	VE-30001369	ZPD ZENER DIODE	3.6V
	D800	VE-30001318	DIODE	1A/800V 20A
	D801	VE-30001347	ZENER DIODE	8.2V
	D802	VE-30001318	DIODE	1A/800V 20A
	D803	VE-30001315	DIODE	1A/200V 20A
	D804	VE-30001285	SMD DIODE	
	D805	VE-30001315	DIODE	1A/200V 20A
	D806	VE-30001315	DIODE	1A/200V 20A
	D808	VE-30007681	DIODE	3A/800V 150A
	D809	VE-30001329	DIODE	1A/1000V 30A
	D810	VE-30009366	DIODE	3A/200V 150A
⚠	D811	VE-30001329	DIODE	1A/1000V 30A
	D812	VE-30001285	SMD DIODE	
⚠	D813	VE-30001329	DIODE	1A/1000V 30A
⚠	D837	VE-30001329	DIODE	1A/1000V 30A
⚠	D838	VE-30001329	DIODE	1A/1000V 30A
	D890	VE-30001329	DIODE	1A/1000V 30A
	D900	VE-30001318	DIODE	1A/800V 20A
	D901	VE-30001318	DIODE	1A/800V 20A
	D902	VE-30001318	DIODE	1A/800V 20A

⚠	Symbol No.	Part No.	Part Name	Description
	DIODE			
	D903	VE-30001344	ZENER DIODE	6.2V 1/2W
	TRANSISTOR			
	D889	VE-30001384	TRANSISTOR	
	Q104	VE-30001457	SMD TRANSISTOR	
	Q106	VE-30001457	SMD TRANSISTOR	
	Q141	VE-30001457	SMD TRANSISTOR	
	Q142	VE-30001457	SMD TRANSISTOR	
	Q301	VE-30001458	SMD TRANSISTOR	
	Q302	VE-30001457	SMD TRANSISTOR	
	Q406	VE-30001457	SMD TRANSISTOR	
	Q503	VE-30001457	SMD TRANSISTOR	
	Q504	VE-30001458	SMD TRANSISTOR	
	Q601	VE-30013656	POWER TRANSISTOR	
⚠	Q603	VE-30001448	TRANSISTOR	H.OUT
	Q604	VE-30001457	SMD TRANSISTOR	
	Q606	VE-30001457	SMD TRANSISTOR	
	Q700	VE-30001458	SMD TRANSISTOR	
	Q801	VE-30001385	TRANSISTOR	
	Q802	VE-30001457	SMD TRANSISTOR	
	Q804	VE-30001454	TRANSISTOR	
	IC			
	IC118	VE-30001506	I.C.	
	IC301	VE-30011824	I.C.	
	IC403	VE-30014510	I.C.	
	IC500	VE-20108834	I.C. (MEMORY)24C08 X30786110I10122104(JVC)	
	IC501	VE-20091454	I.C. (MICOM) PR.IC.3X-ST92195C 64K JVC30A34	
	IC502	VE-30001670	PREAMPLIFIER	
⚠	IC600	VE-30015306	I.C.	
	IC700	VE-30013658	I.C.	
	IC800	VE-30011968	I.C.	
⚠	IC801	VE-30015087	I.C.	
	IC803	VE-30001500	I.C.	
	IC804	VE-30001622	I.C.	
	IC806	VE-30014346	I.C.	
⚠	IC900	VE-30025172	I.C.	
	OTHERS			
⚠	F801	VE-30001731	FUSE	2.5A
	J281	VE-30006712	FERRITE BEAD	
	L101	VE-30001971	FERRITE BEAT	
	L102	VE-30001971	FERRITE BEAT	
	L103	VE-30001971	FERRITE BEAT	
	L106	VE-30001971	FERRITE BEAT	
	L107	VE-30001971	FERRITE BEAT	
	L108	VE-30001971	FERRITE BEAT	
	L109	VE-30001971	FERRITE BEAT	
	L110	VE-30001971	FERRITE BEAT	
	L111	VE-30001971	FERRITE BEAT	
	L112	VE-30001971	FERRITE BEAT	
	L113	VE-30001971	FERRITE BEAT	
	L114	VE-30001971	FERRITE BEAT	
	L115	VE-30001971	FERRITE BEAT	
	L210	VE-30001971	FERRITE BEAT	
	L211	VE-30001971	FERRITE BEAT	
	L401	VE-30001971	FERRITE BEAT	
	L403	VE-30001971	FERRITE BEAT	
	L406	VE-30001971	FERRITE BEAT	
	L604	VE-30001971	FERRITE BEAT	
	L700	VE-30001971	FERRITE BEAT	
	L701	VE-30001971	FERRITE BEAT	
	L802	VE-30001971	FERRITE BEAT	
	L805	VE-30001971	FERRITE BEAT	
	L806	VE-30001971	FERRITE BEAT	
	L809	VE-30001971	FERRITE BEAT	
⚠	PL903	VE-30001855	CRT SOCKET	
	R900	VE-30006712	FERRITE BEAD	
	R901	VE-30006712	FERRITE BEAD	
	R902	VE-30006712	FERRITE BEAD	
	SG900	VE-30000428	SPARK GAP	300V
	SG901	VE-30000428	SPARK GAP	300V
	SG902	VE-30000428	SPARK GAP	300V
	SW501	VE-30002178	TACT SWITCH	
	SW502	VE-30002178	TACT SWITCH	
	SW503	VE-30002178	TACT SWITCH	
	SW504	VE-30002178	TACT SWITCH	
	SW505	VE-30002178	TACT SWITCH	
⚠	SW801	VE-30017848	SWITCH(ON/OFF)	
⚠	TH800	VE-30001270	PTC	9 OHM
⚠	TR801	VE-30002100	LINE FILTER	
⚠	TU201	VE-30009637	TUNER	
	X401	VE-30001749	XTAL	4.433619MHZ
	X402	VE-30015592	XTAL	3.579545MHZ
	X501	VE-30002851	XTAL	4MHZ
	X700	VE-30001756	XTAL	18.432MHZ
	Z401	VE-30013163	SAW FILTER	
	Z402	VE-30014261	SAW FILTER	
	Z404	VE-30001724	SER FILTER	5.5MHZ

[AV-21KT1BEF/A / AV-21KT1SEF/A]

■ FRONT AV PW BOARD ASSY (VE-20118322)

⚠	Symbol No.	Part No.	Part Name	Description
	OTHERS			
	PL1203	VE-30001884	RCA JACK	
	PL1204	VE-30001882	RCA JACK	
	PL1205	VE-30001883	RCA JACK	

■ HEADPHONE PW BOARD ASSY (VE-20100697)

⚠	Symbol No.	Part No.	Part Name	Description
	RESISTOR			
	R113	VE-30000744	CF R	1/4W 560R J
	R114	VE-30000744	CF R	1/4W 560R J
	R115	VE-30000712	CF R	1/4W 470R J
	R116	VE-30000712	CF R	1/4W 470R J
	COIL			
	L103	VE-30001996	FIXED COIL	22UH
	L104	VE-30001996	FIXED COIL	22UH
	OTHERS			
	CON106	VE-30001900	HEADPHONE JACK	HP01/2/3/4/5/6

[AV-21KT1BEF/B / AV-21KT1SEF/B]

■ MAIN P.W. BOARD ASS'Y (VE-20133635)

Regarding the parts list for the main PW board ass'y VE-20133635, only the different parts from those of the VE-20124223 are described, For further details regarding the other parts, refer to the parts list for the VE-20124223 described on page 4 through page 6.

⚠	Symbol No.	Part No.		Part Name	Description
		VE-20124223 [CRT "A" type]	**VE-20133635** [CRT "B" type]		
	R602	VE-30000536	VE-30000513	CF R	1/4W 130K J
	R605	VE-30000504	VE-30000477	CF R	1/4W 100K J
	R624	VE-30001161	VE-30001120	MO R	2W 22R J
⚠	R648	VE-30001246	VE-30002828	FUSE R	1W 0.75R J
⚠	C618	VE-30000136	VE-30000174	MKP CAP	7.5NF 1600Vdc / 1250Vp

■ FRONT AV PW BOARD ASSY (VE-20118322)

Refer to PARTS LIST in page 7 for this P. W. board.

■ HEADPHONE PW BOARD ASSY (VE-20100697)

Refer to PARTS LIST in page 7 for this P. W. board.

PRINTED WIRING BOARD PARTS LIST

[AV-21KT1BNF/A / AV-21KT1SNF/A]

■ MAIN P.W. BOARD ASS'Y (VE-20124225)

⚠	Symbol No.	Part No.	Part Name	Description
	RESISTOR			
	J108	VE-30000712	CF R	1/4W 470R J
	J271	VE-30000712	CF R	1/4W 470R J
	R105	VE-30000792	CF R	1/4W 75R J
	R109	VE-30012713	SMD R	1/16W 75R J
	R110	VE-30012713	SMD R	1/16W 75R J
	R113	VE-30012713	SMD R	1/16W 75R J
	R114	VE-30012713	SMD R	1/16W 75R J
	R115	VE-30012713	SMD R	1/16W 75R J
	R116	VE-30012987	SMD R	1/16W 56R J
	R117	VE-30012713	SMD R	1/16W 75R J
	R118	VE-30000792	CF R	1/4W 75R J
	R122	VE-30000792	CF R	1/4W 75R J
	R123	VE-30000792	CF R	1/4W 75R J
	R126	VE-30012695	SMD R	1/16W 470R J
	R127	VE-30000459	CF R	1/4W 100R J
	R129	VE-30012713	SMD R	1/16W 75R J
	R135	VE-30012657	SMD R	1/16W 1K J
	R139	VE-30012713	SMD R	1/16W 75R J
	R140	VE-30012987	SMD R	1/16W 56R J
	R141	VE-30012695	SMD R	1/16W 470R J
	R142	VE-30000459	CF R	1/4W 100R J
	R145	VE-30012713	SMD R	1/16W 75R J
	R149	VE-30000752	CF R	1/4W 56K J
	R151	VE-30012696	SMD R	1/16W 47K J
	R152	VE-30000752	CF R	1/4W 56K J
	R153	VE-30012657	SMD R	1/16W 1K J
	R154	VE-30000723	CF R	1/4W 47K J
	R155	VE-30012649	SMD R	1/16W 150R J
	R201	VE-30012674	SMD R	1/16W 27K J
	R202	VE-30012692	SMD R	1/16W 4.7K J
	R204	VE-30000459	CF R	1/4W 100R J
	R206	VE-30000459	CF R	1/4W 100R J
	R301	VE-30000471	CF R	1/4W 10K J
	R302	VE-30000471	CF R	1/4W 10K J
	R303	VE-30012641	SMD R	1/16W 10K J
	R305	VE-30012641	SMD R	1/16W 10K J
	R306	VE-30012509	SMD R	1/16W 100K J
	R417	VE-30012510	SMD R	1/16W 100R J
	R418	VE-30012510	SMD R	1/16W 100R J
	R419	VE-30012649	SMD R	1/16W 150R J
	R420	VE-30000466	CF R	1/4W 1K J
	R421	VE-30012650	SMD R	1/16W 15K J
	R422	VE-30012659	SMD R	1/16W 2.2K J
	R423	VE-30012712	SMD R	1/16W 8.2K J
	R424	VE-30000712	CF R	1/4W 470R J
	R425	VE-30000583	CF R	1/4W 220R J
	R426	VE-30012659	SMD R	1/16W 2.2K J
	R427	VE-30012674	SMD R	1/16W 27K J
	R428	VE-30000792	CF R	1/4W 75R J
	R431	VE-30012674	SMD R	1/16W 27K J
	R432	VE-30012657	SMD R	1/16W 1K J
	R433	VE-30012667	SMD R	1/16W 220K J
	R437	VE-30000466	CF R	1/4W 1K J
	R438	VE-30000466	CF R	1/4W 1K J
	R439	VE-30012657	SMD R	1/16W 1K J
	R440	VE-30012714	SMD R	1/16W 820R J
	R441	VE-30012656	SMD R	1/16W 18K J
	R442	VE-30000466	CF R	1/4W 1K J
	R446	VE-30012714	SMD R	1/16W 820R J
	R447	VE-30012714	SMD R	1/16W 820R J
	R448	VE-30012683	SMD R	1/16W 330K J
	R449	VE-30012662	SMD R	1/16W 2.7K J
	R450	VE-30000712	CF R	1/4W 470R J
	R455	VE-30012650	SMD R	1/16W 15K J
	R458	VE-30012662	SMD R	1/16W 2.7K J
	R459	VE-30012510	SMD R	1/16W 100R J
	R460	VE-30012510	SMD R	1/16W 100R J
	R461	VE-30012510	SMD R	1/16W 100R J
	R463	VE-30012692	SMD R	1/16W 4.7K J
	R464	VE-30012650	SMD R	1/16W 15K J
	R469	VE-30000670	CF R	1/4W 330K J
	R470	VE-30012683	SMD R	1/16W 330K J
	R474	VE-30012692	SMD R	1/16W 4.7K J
	R475	VE-30012510	SMD R	1/16W 100R J
	R476	VE-30012707	SMD R	1/16W 680R J
	R477	VE-30014022	SMD R	1/16W 47R J
	R502	VE-30012695	SMD R	1/16W 470R J
	R503	VE-30012707	SMD R	1/16W 680R J
	R504	VE-30012679	SMD R	1/16W 3.9K J
	R505	VE-30012673	SMD R	1/16W 270R J
	R506	VE-30012506	SMD R	1/16W 1.5K J
	R507	VE-30012657	SMD R	1/16W 1K J
	R508	VE-30000706	CF R	1/4W 47R J
	R509	VE-30012641	SMD R	1/16W 10K J
	R510	VE-30000622	CF R	1/4W 270R J
	R511	VE-30012657	SMD R	1/16W 1K J
	R512	VE-30012504	SMD R	1/16W 1.2K J
	R513	VE-30000459	CF R	1/4W 100R J
	R514	VE-30000459	CF R	1/4W 100R J
	R515	VE-30012692	SMD R	1/16W 4.7K J
	R516	VE-30012692	SMD R	1/16W 4.7K J
	R517	VE-30012692	SMD R	1/16W 4.7K J

⚠	Symbol No.	Part No.	Part Name	Description
	RESISTOR			
	R518	VE-30000471	CF R	1/4W 10K J
	R519	VE-30012698	SMD R	1/16W 5.6K J
	R525	VE-30000583	CF R	1/4W 220R J
	R526	VE-30012641	SMD R	1/16W 10K J
	R527	VE-30000718	CF R	1/4W 4.7K J
	R528	VE-30012698	SMD R	1/16W 5.6K J
	R530	VE-30012698	SMD R	1/16W 5.6K J
	R531	VE-30012692	SMD R	1/16W 4.7K J
	R532	VE-30012659	SMD R	1/16W 2.2K J
	R533	VE-30012644	SMD R	1/16W 12K J
	R534	VE-30000526	CF R	1/4W 1.5K J
	R535	VE-30000718	CF R	1/4W 4.7K J
	R536	VE-30000471	CF R	1/4W 10K J
	R537	VE-30012641	SMD R	1/16W 10K J
	R538	VE-30012698	SMD R	1/16W 5.6K J
	R539	VE-30012659	SMD R	1/16W 2.2K J
	R540	VE-30012644	SMD R	1/16W 12K J
	R545	VE-30012644	SMD R	1/16W 12K J
	R546	VE-30000560	CF R	1/4W 1.8K J
	R547	VE-30012659	SMD R	1/16W 2.2K J
	R548	VE-30012641	SMD R	1/16W 10K J
	R555	VE-30012659	SMD R	1/16W 2.2K J
	R556	VE-30012657	SMD R	1/16W 1K J
	R559	VE-30000470	CF R	1/2W 10K J
	R560	VE-30012669	SMD R	1/16W 22K J
	R561	VE-30012692	SMD R	1/16W 4.7K J
	R562	VE-30000471	CF R	1/4W 10K J
	R564	VE-30012641	SMD R	1/16W 10K J
	R601	VE-30000477	CF R	1/4W 100K J
	R602	VE-30000536	CF R	1/4W 150K J
	R605	VE-30000504	CF R	1/4W 120K J
	R612	VE-30012692	SMD R	1/16W 4.7K J
	R613	VE-30012692	SMD R	1/16W 4.7K J
	R618	VE-30012662	SMD R	1/16W 2.7K J
	R619	VE-30012641	SMD R	1/16W 10K J
	R623	VE-30000607	CF R	1/4W 2.2R J
	R624	VE-30001161	MO R	2W 39R J
	R625	VE-30000900	MF R	1/4W 1.8K J
	R627	VE-30000910	MF R	1/2W 1.8R G
	R628	VE-30000650	CF R	1/4W 33R J
	R630	VE-30000828	CF R	1/4W 8.2M J
	R631	VE-30000885	MF R	1/4W 1.5K J
	R633	VE-30000706	CF R	1/4W 47R J
	R634	VE-30012641	SMD R	1/16W 10K J
	R637	VE-30000621	CF R	1/2W 270R J
	R638	VE-30000612	CF R	1/4W 2.4K J
	R639	VE-30000718	CF R	1/4W 4.7K J
	R640	VE-30012662	SMD R	1/16W 2.7K J
	R641	VE-30012649	SMD R	1/16W 150R J
	R645	VE-30016868	MO R	3W 2.2K J (RADIAL)
	R646	VE-30000500	CF R	1/4W 12K J
	R647	VE-30000466	CF R	1/4W 1K J
⚠	R648	VE-30001246	FUSE R	1W 0.47R J
	R649	VE-30000775	CF R	1/4W 6.8K J
	R650	VE-30000744	CF R	1/4W 560R J
	R654	VE-30000705	CF R	1/2W 47R J
	R655	VE-30000705	CF R	1/2W 47R J
	R657	VE-30012656	SMD R	1/16W 18K J
	R658	VE-30001161	MO R	2W 39R J
	R659	VE-30001123	MO R	2W 220R J
	R660	VE-30012669	SMD R	1/16W 22K J
	R661	VE-30012674	SMD R	1/16W 27K J
	R662	VE-30000712	CF R	1/4W 470R J
	R663	VE-30000459	CF R	1/4W 100R J
	R665	VE-30012708	SMD R	1/16W 68K J
	R701	VE-30000459	CF R	1/4W 100R J
	R703	VE-30000459	CF R	1/4W 100R J
	R705	VE-30000459	CF R	1/4W 100R J
	R715	VE-30012695	SMD R	1/16W 470R J
	R717	VE-30012695	SMD R	1/16W 470R J
	R719	VE-30012657	SMD R	1/16W 1K J
	R721	VE-30000459	CF R	1/4W 100R J
	R722	VE-30000459	CF R	1/4W 100R J
	R723	VE-30012510	SMD R	1/16W 100R J
	R724	VE-30012510	SMD R	1/16W 100R J
	R725	VE-30012657	SMD R	1/16W 1K J
	R726	VE-30012657	SMD R	1/16W 1K J
	R727	VE-30012657	SMD R	1/16W 1K J
	R728	VE-30012657	SMD R	1/16W 1K J
	R729	VE-30012657	SMD R	1/16W 1K J
	R730	VE-30012657	SMD R	1/16W 1K J
	R731	VE-30012657	SMD R	1/16W 1K J
	R801	VE-30000982	MF R	1/4W 4.7K J
	R803	VE-30012692	SMD R	1/16W 4.7K J
	R804	VE-30000504	CF R	1/4W 120K J
	R805	VE-30000843	MF R	1/4W 10R J
	R806	VE-30000982	MF R	1/4W 4.7K J
	R807	VE-30001130	MO R	1/2W 0.22R J
	R809	VE-30007784	MO R	5W 33K J(RADIAL)
⚠	R810	VE-30001257	MG R	1/2W 4.7M J
	R811	VE-30000594	CF R	1/4W 22K J
	R813	VE-30000718	CF R	1/4W 4.7K J

[AV-21KT1BNF/A / AV-21KT1SNF/A]

RESISTOR

⚠	Symbol No.	Part No.	Part Name	Description
	R814	VE-30012662	SMD R	1/16W 2.7K J
	R815	VE-30000452	CF R	1/4W 10R J
	R817	VE-30001037	MF R	1/4W 99K F
	R818	VE-30000925	MF R	1/4W 2.2K F
	R819	VE-30000810	CF R	1/4W 820R J
	R821	VE-30000470	CF R	1/2W 10K J
	R828	VE-30001260	WW R	5W 2.2R J RAD.
	R829	VE-30000718	CF R	1/4W 4.7K J
	R830	VE-30012657	SMD R	1/16W 1K J
	R831	VE-30012669	SMD R	1/16W 22K J
	R835	VE-30016802	WW R	5W 5.6R J RAD.
	R903	VE-30000886	MF R	1/4W 1.5K F
	R904	VE-30000886	MF R	1/4W 1.5K F
	R905	VE-30000886	MF R	1/4W 1.5K F
	R906	VE-30000525	CF R	1/2W 1.5K J
⚠	R919	VE-30001207	FUSE R	1/4W 10R J

CAPACITOR

⚠	Symbol No.	Part No.	Part Name	Description
	C141	VE-30000384	EL CAP.	2.2UF 50V M
	C142	VE-30000384	EL CAP.	2.2UF 50V M
	C143	VE-30012583	SMD CAP.	1.5NF 50V K
	C144	VE-30012583	SMD CAP.	1.5NF 50V K
	C145	VE-30012589	SMD CAP.	4.7NF 50V K
	C147	VE-30012583	SMD CAP.	1.5NF 50V K
	C148	VE-30012583	SMD CAP.	1.5NF 50V K
	C150	VE-30012589	SMD CAP.	4.7NF 50V K
	C155	VE-30012560	SMD CAP.	100PF 50V J
	C157	VE-30012560	SMD CAP.	100PF 50V J
	C159	VE-30012560	SMD CAP.	100PF 50V J
	C160	VE-30000387	EL CAP.	33UF 50V M
	C161	VE-30000362	EL CAP.	1UF 50V M
	C162	VE-30000362	EL CAP.	1UF 50V M
	C201	VE-30000400	EL CAP.	47UF 50V M
	C205	VE-30000371	EL CAP.	22UF 50V M
	C206	VE-30012610	SMD CAP.	10NF 50V J
	C207	VE-30012610	SMD CAP.	10NF 50V J
	C300	VE-30000400	EL CAP.	47UF 50V M
	C302	VE-30000092	MKT CAP.	220NF 63V J
	C305	VE-30000092	MKT CAP.	220NF 63V J
	C404	VE-30000225	CER CAP.	220PF 50V J SL
	C408	VE-30012586	SMD CAP.	22NF 50V K
	C409	VE-30000345	EL CAP.	10UF 50V M
	C410	VE-30000384	EL CAP.	2.2UF 50V M
	C411	VE-30000345	EL CAP.	10UF 50V M
	C412	VE-30012586	SMD CAP.	22NF 50V K
	C413	VE-30000362	EL CAP.	1UF 50V M
	C414	VE-30012585	SMD CAP.	2.2NF 50V K R
	C415	VE-30012581	SMD CAP.	1NF 50V K R
	C416	VE-30000362	EL CAP.	1UF 50V M
	C417	VE-30000362	EL CAP.	1UF 50V M
	C418	VE-30012586	SMD CAP.	22NF 50V K
	C419	VE-30000413	EL CAP.	4.7UF 50V M
	C420	VE-30000100	MKT CAP.	330NF 63V J
	C422	VE-30000400	EL CAP.	47UF 50V M
	C423	VE-30000400	EL CAP.	47UF 50V M
	C424	VE-30000345	EL CAP.	10UF 50V M
	C425	VE-30012586	SMD CAP.	22NF 50V K
	C426	VE-30016654	SMD CAP.	100NF 16V K R
	C427	VE-30016654	SMD CAP.	100NF 16V K R
	C429	VE-30012589	SMD CAP.	4.7NF 50V K
	C431	VE-30000362	EL CAP.	1UF 50V M
	C432	VE-30012586	SMD CAP.	22NF 50V K
	C433	VE-30000345	EL CAP.	10UF 50V M
	C434	VE-30016654	SMD CAP.	100NF 16V K R
	C435	VE-30016654	SMD CAP.	100NF 16V K R
	C436	VE-30000109	MKT CAP.	470NF 63V J
	C437	VE-30016654	SMD CAP.	100NF 16V K R
	C438	VE-30016654	SMD CAP.	100NF 16V K R
	C439	VE-30016654	SMD CAP.	100NF 16V K R
	C440	VE-30000074	MKT CAP.	100NF 63V J
	C441	VE-30012582	SMD CAP.	10NF 50V K R
	C442	VE-30000109	MKT CAP.	470NF 63V J
	C443	VE-30000362	EL CAP.	1UF 50V M
	C444	VE-30000384	EL CAP.	2.2UF 50V M
	C448	VE-30012586	SMD CAP.	22NF 50V K
	C449	VE-30012567	SMD CAP.	220PF 50V J
	C451	VE-30012581	SMD CAP.	1NF 50V K R
	C452	VE-30012581	SMD CAP.	1NF 50V K R
	C454	VE-30012573	SMD CAP.	47PF 50V J
	C455	VE-30012573	SMD CAP.	47PF 50V J
	C456	VE-30012573	SMD CAP.	47PF 50V J
	C459	VE-30012575	SMD CAP.	4.7PF 50V C CH
	C460	VE-30000345	EL CAP.	10UF 50V M
	C502	VE-30000396	EL CAP.	47UF 16V M
	C504	VE-30012586	SMD CAP.	22NF 50V K
	C505	VE-30012589	SMD CAP.	4.7NF 50V K
	C510	VE-30012586	SMD CAP.	22NF 50V K
	C511	VE-30012566	SMD CAP.	22PF 50V J
	C513	VE-30000371	EL CAP.	22UF 50V M
	C514	VE-30012586	SMD CAP.	22NF 50V K
	C515	VE-30012579	SMD CAP.	82PF 50V J
	C517	VE-30012586	SMD CAP.	22NF 50V K
	C518	VE-30012586	SMD CAP.	22NF 50V K
	C519	VE-30000352	EL CAP.	100UF 16V M
	C520	VE-30012560	SMD CAP.	100PF 50V J
	C521	VE-30012562	SMD CAP.	15PF 50V J

CAPACITOR

⚠	Symbol No.	Part No.	Part Name	Description
	C522	VE-30012562	SMD CAP.	15PF 50V J
	C523	VE-30012585	SMD CAP.	2.2NF 50V K R
	C525	VE-30012566	SMD CAP.	22PF 50V J
	C526	VE-30012586	SMD CAP.	22NF 50V K
	C530	VE-30012589	SMD CAP.	4.7NF 50V K
	C531	VE-30000384	EL CAP.	2.2UF 50V M
	C532	VE-30012586	SMD CAP.	22NF 50V K
	C536	VE-30000074	MKT CAP.	100NF 63V J
	C541	VE-30000109	MKT CAP.	470NF 63V J
	C542	VE-30000205	CER CAP.	150PF 50V J SL
	C543	VE-30000205	CER CAP.	150PF 50V J SL
	C545	VE-30012607	SMD CAP.	150PF 50V J
	C603	VE-30000384	EL CAP.	2.2UF 50V M
	C604	VE-30000345	EL CAP.	10UF 50V M
	C608	VE-30000107	MKT CAP.	47NF 250V J
	C610	VE-30000355	EL CAP.	100UF 50V M
	C611	VE-30000092	MKT CAP.	220NF 63V J
	C613	VE-30016085	EL CAP.	10UF 63V
	C615	VE-30000359	EL CAP.	1000UF 16V M
	C616	VE-30000352	EL CAP.	100UF 16V M
⚠	C618	VE-30000136	MKP CAP.	12NF 2000V %3.5
⚠	C619	VE-30000131	MKP CAP.	100NF 250V J
	C623	VE-30000404	EL CAP.	47UF 160V M (HR)
	C624	VE-30000350	EL CAP.	10UF 250V M
	C627	VE-30000154	MKP CAP.	390NF 250V J
	C628	VE-30018380	EL CAP.	3.3UF 160V M
	C631	VE-30000410	EL CAP.	470UF 50V M
	C632	VE-30000100	MKT CAP.	330NF 63V J
	C633	VE-30016085	EL CAP.	10UF 63V
	C634	VE-30000409	EL CAP.	470UF 25V M
	C635	VE-30000100	MKT CAP.	330NF 63V J
	C636	VE-30000387	EL CAP.	33UF 50V M
	C638	VE-30012581	SMD CAP.	1NF 50V K R
	C639	VE-30000433	CER CAP.	1NF 1KV M B
	C641	VE-30000345	EL CAP.	10UF 50V M
	C642	VE-30012609	SMD CAP.	68NF 50V K
	C643	VE-30000116	MKT CAP.	68NF 63V J
	C644	VE-30000362	EL CAP.	1UF 50V M
	C645	VE-30000352	EL CAP.	100UF 16V M
	C700	VE-30012565	SMD CAP.	1.8PF 50V J CH
	C701	VE-30012565	SMD CAP.	1.8PF 50V J CH
	C702	VE-30012573	SMD CAP.	47PF 50V J
	C703	VE-30012573	SMD CAP.	47PF 50V J
	C704	VE-30012576	SMD CAP.	56PF 50V J CH
	C705	VE-30000345	EL CAP.	10UF 50V M
	C706	VE-30000345	EL CAP.	10UF 50V M
	C707	VE-30012573	SMD CAP.	47PF 50V J
	C708	VE-30012586	SMD CAP.	22NF 50V K
	C710	VE-30012573	SMD CAP.	47PF 50V J
	C712	VE-30000345	EL CAP.	10UF 50V M
	C713	VE-30016654	SMD CAP.	100NF 16V K R
	C714	VE-30016654	SMD CAP.	100NF 16V K R
	C716	VE-30016654	SMD CAP.	100NF 16V K R
	C717	VE-30016654	SMD CAP.	100NF 16V K R
	C718	VE-30016654	SMD CAP.	100NF 16V K R
	C719	VE-30012586	SMD CAP.	22NF 50V K
	C720	VE-30000345	EL CAP.	10UF 50V M
	C721	VE-30016654	SMD CAP.	100NF 16V K R
	C723	VE-30016654	SMD CAP.	100NF 16V K R
	C724	VE-30000345	EL CAP.	10UF 50V M
	C729	VE-30016654	SMD CAP.	100NF 16V K R
	C730	VE-30000393	EL CAP.	3.3UF 50V M
	C733	VE-30000345	EL CAP.	10UF 50V M
	C734	VE-30000345	EL CAP.	10UF 50V M
	C735	VE-30012586	SMD CAP.	22NF 50V K
	C736	VE-30000345	EL CAP.	10UF 50V M
	C737	VE-30000371	EL CAP.	22UF 50V M
	C738	VE-30000371	EL CAP.	22UF 50V M
	C739	VE-30000371	EL CAP.	22UF 50V M
	C740	VE-30000371	EL CAP.	22UF 50V M
	C741	VE-30012585	SMD CAP.	2.2NF 50V K R
	C742	VE-30012585	SMD CAP.	2.2NF 50V K R
	C748	VE-30012560	SMD CAP.	100PF 50V J
⚠	C801	VE-30000094	MKT CAP.	220NF AC275V M
⚠	C802	VE-30000094	MKT CAP.	220NF AC275V M
⚠	C803	VE-30000433	CER CAP.	1NF 1KV M B
⚠	C804	VE-30000433	CER CAP.	1NF 1KV M B
	C808	VE-30000295	CER CAP.	100NF 50V Z F
	C809	VE-30000418	EL CAP.	100UF 400V M
	C810	VE-30000387	EL CAP.	33UF 50V M
	C811	VE-30000161	MKP CAP.	47NF 630V J
	C812	VE-30009208	CER CAP.	470PF 1KV K (PULSE)
	C813	VE-30000295	CER CAP.	100NF 50V Z F
⚠	C816	VE-30000447	CER CAP.	4.7NF 4KV M E
	C817	VE-30000198	CER CAP.	120PF 500V J SL
	C818	VE-30016654	SMD CAP.	100NF 16V K R
	C819	VE-30012609	SMD CAP.	68NF 50V K
	C822	VE-30007308	CER CAP.	220PF 1KV K (PULSE)
	C824	VE-30000433	CER CAP.	1NF 1KV M B
	C826	VE-30000404	EL CAP.	47UF 160V M (HR)
	C827	VE-30000411	EL CAP.	4700UF 16V M
	C828	VE-30000295	CER CAP.	100NF 50V Z F
	C829	VE-30000407	EL CAP.	470UF 16V M
	C830	VE-30000382	EL CAP.	2200UF 16V M
	C831	VE-30000431	CER CAP.	100PF 1KV M
	C832	VE-30000295	CER CAP.	100NF 50V Z F
	C833	VE-30000407	EL CAP.	470UF 16V M
	C834	VE-30000295	CER CAP.	100NF 50V Z F

[AV-21KT1BNF/A / AV-21KT1SNF/A]

⚠	Symbol No.	Part No.	Part Name	Description
	CAPACITOR			
	C836	VE-30000431	CER CAP.	100PF 1KV M
	C838	VE-30000352	EL CAP.	100UF 16V M
	C839	VE-30000352	EL CAP.	100UF 16V M
	C840	VE-30000352	EL CAP.	100UF 16V M
	C843	VE-30000431	CER CAP.	100PF 1KV M
	C848	VE-30000352	EL CAP.	100UF 16V M
	C849	VE-30000352	EL CAP.	100UF 16V M
	C850	VE-30000352	EL CAP.	100UF 16V M
	C855	VE-30000407	EL CAP.	470UF 16V M
	C856	VE-30007308	CER CAP.	220PF 1KV K (PULSE)
	C857	VE-30012573	SMD CAP.	47PF 50V J
	C858	VE-30007308	CER CAP.	220PF 1KV K (PULSE)
	C907	VE-30000434	CER CAP.	1NF 2KV K B
	C908	VE-30000415	EL CAP.	4.7UF 250V M
	C912	VE-30000075	MKT CAP.	100NF 250V K (DC)
	NOT	VE-30000367	EL CAP.	1UF 250V M
	X403	VE-30000074	MKT CAP.	100NF 63V J
	TRANSF			
⚠	TR601	VE-30017788	FB TRANSF.	
⚠	TR802	VE-30013683	SMPS TRANSF.	
	COIL			
	J282	VE-30001992	FIXED COIL	10UH
	L201	VE-30001979	FIXED COIL	1UH
	L402	VE-30001992	FIXED COIL	10UH
	L404	VE-30001990	FIXED COIL	6.8UH
	L405	VE-30014048	VIF ADJ COIL	44MHZ
	L601	VE-30001990	FIXED COIL	6.8UH
	L603	VE-30002149	LINEARITY COIL	50UH (06-06A)
	L702	VE-30001996	FIXED COIL	22UH
	L703	VE-30001979	FIXED COIL	1UH
	L704	VE-30001979	FIXED COIL	1UH
	L803	VE-30001984	FIXED COIL	2.2UH
	L807	VE-30001992	FIXED COIL	10UH
	L808	VE-30002011	FIXED COIL	150UH
	L810	VE-30001992	FIXED COIL	10UH
	DIODE			
	D101	VE-30007760	SMD ZENER DIODE	
	D102	VE-30007760	SMD ZENER DIODE	
	D103	VE-30007760	SMD ZENER DIODE	
	D104	VE-30007762	SMD ZENER DIODE	
	D106	VE-30001377	UZT ZENER DIODE	33V
	D300	VE-30001285	SMD DIODE	
	D301	VE-30001285	SMD DIODE	
	D405	VE-30007763	SMD ZENER DIODE	
	D407	VE-30001284	DIODE	0.15A/100V 0.5A
	D408	VE-30001285	SMD DIODE	
	D409	VE-30007760	SMD ZENER DIODE	
	D410	VE-30007760	SMD ZENER DIODE	
	D411	VE-30007760	SMD ZENER DIODE	
	D501	VE-30001285	SMD DIODE	
	D505	VE-30001285	SMD DIODE	
	D506	VE-30001284	DIODE	0.15A/100V 0.5A
	D509	VE-30001279	LED(RED/GREEN)	
	D512	VE-30001285	SMD DIODE	
	D513	VE-30001339	ZENER DIODE	3.9V
	D602	VE-30001329	DIODE	1A/1000V 30A
	D603	VE-30001285	SMD DIODE	
	D608	VE-30001318	DIODE	1A/800V 20A
	D609	VE-30001318	DIODE	1A/800V 20A
	D610	VE-30001318	DIODE	1A/800V 20A
	D611	VE-30001285	SMD DIODE	
	D614	VE-30001318	DIODE	1A/800V 20A
	D615	VE-30001285	SMD DIODE	
	D616	VE-30009699	SMD ZENER DIODE	
	D619	VE-30009699	SMD ZENER DIODE	
	D700	VE-30001285	SMD DIODE	
	D701	VE-30001369	ZPD ZENER DIODE	3.6V
	D800	VE-30001318	DIODE	1A/800V 20A
	D801	VE-30001347	ZENER DIODE	8.2V
	D802	VE-30001318	DIODE	1A/800V 20A
	D803	VE-30001315	DIODE	1A/200V 20A
	D804	VE-30001285	SMD DIODE	
	D805	VE-30001315	DIODE	1A/200V 20A
	D806	VE-30001315	DIODE	1A/200V 20A
	D808	VE-30007681	DIODE	3A/800V 150A
	D809	VE-30001329	DIODE	1A/1000V 30A
	D810	VE-30009366	DIODE	3A/200V 150A
⚠	D811	VE-30001329	DIODE	1A/1000V 30A
	D812	VE-30001285	SMD DIODE	
⚠	D813	VE-30001329	DIODE	1A/1000V 30A
⚠	D837	VE-30001329	DIODE	1A/1000V 30A
⚠	D838	VE-30001329	DIODE	1A/1000V 30A
	D890	VE-30001329	DIODE	1A/1000V 30A
	D900	VE-30001318	DIODE	1A/800V 20A
	D901	VE-30001318	DIODE	1A/800V 20A
	D902	VE-30001318	DIODE	1A/800V 20A
	D903	VE-30001344	ZENER DIODE	6.2V 1/2W

⚠	Symbol No.	Part No.	Part Name	Description
	TRANSISTOR			
	D889	VE-30001384	TRANSISTOR	
	Q104	VE-30001457	SMD TRANSISTOR	
	Q106	VE-30001457	SMD TRANSISTOR	
	Q141	VE-30001457	SMD TRANSISTOR	
	Q142	VE-30001457	SMD TRANSISTOR	
	Q301	VE-30001458	SMD TRANSISTOR	
	Q302	VE-30001457	SMD TRANSISTOR	
	Q406	VE-30001457	SMD TRANSISTOR	
	Q503	VE-30001457	SMD TRANSISTOR	
	Q504	VE-30001458	SMD TRANSISTOR	
	Q601	VE-30013656	POWER TRANSISTOR	
⚠	Q603	VE-30001448	TRANSISTOR	H.OUT
	Q604	VE-30001457	SMD TRANSISTOR	
	Q606	VE-30001457	SMD TRANSISTOR	
	Q700	VE-30001458	SMD TRANSISTOR	
	Q801	VE-30001385	TRANSISTOR	
	Q802	VE-30001457	SMD TRANSISTOR	
	Q804	VE-30001454	TRANSISTOR	
	IC			
	IC118	VE-30001506	I.C.	
	IC301	VE-30011824	I.C.	
	IC403	VE-30014521	I.C.	
	IC500	VE-20108833	I.C. (MEMORY)24C08 X30681110H10122104(JVC)	
	IC501	VE-20091454	I.C. (MICOM) PR.IC.3X-ST92195C 64K JVC30A34	
	IC502	VE-30001670	PREAMPLIFIER	
⚠	IC600	VE-30015306	I.C.	
	IC700	VE-30013658	I.C.	
	IC800	VE-30011968	I.C.	
⚠	IC801	VE-30015087	I.C.	
	IC803	VE-30001500	I.C.	
	IC804	VE-30001622	I.C.	
	IC806	VE-30014346	I.C.	
⚠	IC900	VE-30025172	I.C.	
	OTHERS			
⚠	F801	VE-30001731	FUSE	2.5A
	J281	VE-30006712	FERRITE BEAD	
	L101	VE-30001971	FERRITE BEAT	
	L102	VE-30001971	FERRITE BEAT	
	L103	VE-30001971	FERRITE BEAT	
	L106	VE-30001971	FERRITE BEAT	
	L107	VE-30001971	FERRITE BEAT	
	L108	VE-30001971	FERRITE BEAT	
	L109	VE-30001971	FERRITE BEAT	
	L110	VE-30001971	FERRITE BEAT	
	L111	VE-30001971	FERRITE BEAT	
	L112	VE-30001971	FERRITE BEAT	
	L113	VE-30001971	FERRITE BEAT	
	L114	VE-30001971	FERRITE BEAT	
	L115	VE-30001971	FERRITE BEAT	
	L210	VE-30001971	FERRITE BEAT	
	L211	VE-30001971	FERRITE BEAT	
	L401	VE-30001971	FERRITE BEAT	
	L403	VE-30001971	FERRITE BEAT	
	L406	VE-30001971	FERRITE BEAT	
	L604	VE-30001971	FERRITE BEAT	
	L700	VE-30001971	FERRITE BEAT	
	L701	VE-30001971	FERRITE BEAT	
	L802	VE-30001971	FERRITE BEAT	
	L805	VE-30001971	FERRITE BEAT	
	L806	VE-30001971	FERRITE BEAT	
	L809	VE-30001971	FERRITE BEAT	
⚠	PL903	VE-30001855	CRT SOCKET	
	R900	VE-30006712	FERRITE BEAD	
	R901	VE-30006712	FERRITE BEAD	
	R902	VE-30006712	FERRITE BEAD	
	SG900	VE-30000428	SPARK GAP	300V
	SG901	VE-30000428	SPARK GAP	300V
	SG902	VE-30000428	SPARK GAP	300V
	SW501	VE-30002178	TACT SWITCH	
	SW502	VE-30002178	TACT SWITCH	
	SW503	VE-30002178	TACT SWITCH	
	SW504	VE-30002178	TACT SWITCH	
	SW505	VE-30002178	TACT SWITCH	
⚠	SW801	VE-30017848	SWITCH(ON/OFF)	
⚠	TH800	VE-30001270	PTC	9 OHM
⚠	TR801	VE-30002100	LINE FILTER	
⚠	TU201	VE-30009637	TUNER	
	X401	VE-30001749	XTAL	4.433619MHZ
	X402	VE-30015592	XTAL	3.579545MHZ
	X501	VE-30002851	XTAL	4MHZ
	X700	VE-30001756	XTAL	18.432MHZ
	Z401	VE-30001705	SAW FILTER	
	Z402	VE-30014261	SAW FILTER	
	Z404	VE-30001724	SER FILTER	5.5MHZ

■ FRONT AV PW BOARD ASSY (VE-20118322)

Refer to PARTS LIST in page 7 for this P. W. board.

■ HEADPHONE PW BOARD ASSY (VE-20100697)

Refer to PARTS LIST in page 7 for this P. W. board.

[AV-21KT1BNF/B / AV-21KT1SNF/B]

■ MAIN P.W. BOARD ASS'Y (VE-20129865)

Regarding the parts list for the main PW board ass'y VE-20129865, only the different parts from those of the VE-20124225 are described, For further details regarding the other parts, refer to the parts list for the VE-20124225 described on page 8 through page 10.

⚠	Symbol No.	Part No.		Part Name	Description
		VE-20124225 [CRT "A" type]	**VE-20129865** [CRT "B" type]		
	R602	VE-30000536	VE-30000513	CF R	1/4W 130K J
	R605	VE-30000504	VE-30000477	CF R	1/4W 100K J
	R624	VE-30001161	VE-30001120	MO R	2W 22R J
⚠	R648	VE-30001246	VE-30002828	FUSE R	1W 0.75R J
⚠	C618	VE-30000136	VE-30000174	MKP CAP	7.5NF 1600Vdc / 1250Vp

■ FRONT AV PW BOARD ASSY (VE-20118322)

Refer to PARTS LIST in page 7 for this P. W. board.

■ HEADPHONE PW BOARD ASSY (VE-20100697)

Refer to PARTS LIST in page 7 for this P. W. board.

PRINTED WIRING BOARD PARTS LIST

[AV-21KT1BPF/A / AV-21KT1SPF/A]

■ MAIN P.W. BOARD ASS'Y (VE-20121220)

RESISTOR

⚠	Symbol No.	Part No.	Part Name	Description
	J108	VE-30000712	CF R	1/4W 470R J
	J271	VE-30000712	CF R	1/4W 470R J
	R105	VE-30000792	CF R	1/4W 75R J
	R109	VE-30012713	SMD R	1/16W 75R J
	R110	VE-30012713	SMD R	1/16W 75R J
	R113	VE-30012713	SMD R	1/16W 75R J
	R114	VE-30012713	SMD R	1/16W 75R J
	R115	VE-30012713	SMD R	1/16W 75R J
	R116	VE-30012987	SMD R	1/16W 56R J
	R117	VE-30012713	SMD R	1/16W 75R J
	R118	VE-30000792	CF R	1/4W 75R J
	R122	VE-30000792	CF R	1/4W 75R J
	R123	VE-30000792	CF R	1/4W 75R J
	R126	VE-30012695	SMD R	1/16W 470R J
	R127	VE-30000459	CF R	1/4W 100R J
	R129	VE-30012713	SMD R	1/16W 75R J
	R135	VE-30012657	SMD R	1/16W 1K J
	R139	VE-30012713	SMD R	1/16W 75R J
	R140	VE-30012987	SMD R	1/16W 56R J
	R141	VE-30012695	SMD R	1/16W 470R J
	R142	VE-30000459	CF R	1/4W 100R J
	R145	VE-30012713	SMD R	1/16W 75R J
	R149	VE-30000752	CF R	1/4W 56K J
	R151	VE-30012696	SMD R	1/16W 47K J
	R152	VE-30000752	CF R	1/4W 56K J
	R153	VE-30012657	SMD R	1/16W 1K J
	R154	VE-30000723	CF R	1/4W 47K J
	R155	VE-30012649	SMD R	1/16W 150R J
	R201	VE-30012674	SMD R	1/16W 27K J
	R202	VE-30012692	SMD R	1/16W 4.7K J
	R204	VE-30000459	CF R	1/4W 100R J
	R206	VE-30000459	CF R	1/4W 100R J
	R301	VE-30000471	CF R	1/4W 10K J
	R302	VE-30000471	CF R	1/4W 10K J
	R303	VE-30012641	SMD R	1/16W 10K J
	R305	VE-30012641	SMD R	1/16W 10K J
	R306	VE-30012509	SMD R	1/16W 100K J
	R407	VE-30000590	CF R	1/4W 2.2K J
	R410	VE-30000590	CF R	1/4W 2.2K J
	R412	VE-30012696	SMD R	1/16W 47K J
	R417	VE-30012510	SMD R	1/16W 100R J
	R418	VE-30012510	SMD R	1/16W 100R J
	R419	VE-30012649	SMD R	1/16W 150R J
	R420	VE-30000466	CF R	1/4W 1K J
	R421	VE-30012650	SMD R	1/16W 15K J
	R422	VE-30012659	SMD R	1/16W 2.2K J
	R423	VE-30012712	SMD R	1/16W 8.2K J
	R424	VE-30000712	CF R	1/4W 470R J
	R425	VE-30000583	CF R	1/4W 220R J
	R426	VE-30012659	SMD R	1/16W 2.2K J
	R427	VE-30012674	SMD R	1/16W 27K J
	R428	VE-30000792	CF R	1/4W 75R J
	R431	VE-30012674	SMD R	1/16W 27K J
	R432	VE-30012657	SMD R	1/16W 1K J
	R433	VE-30012667	SMD R	1/16W 220K J
	R437	VE-30000466	CF R	1/4W 1K J
	R438	VE-30000466	CF R	1/4W 1K J
	R439	VE-30012657	SMD R	1/16W 1K J
	R440	VE-30012714	SMD R	1/16W 820R J
	R441	VE-30012656	SMD R	1/16W 18K J
	R442	VE-30000466	CF R	1/4W 1K J
	R446	VE-30012714	SMD R	1/16W 820R J
	R447	VE-30012714	SMD R	1/16W 820R J
	R448	VE-30012683	SMD R	1/16W 330K J
	R449	VE-30012662	SMD R	1/16W 2.7K J
	R450	VE-30000712	CF R	1/4W 470R J
	R455	VE-30012650	SMD R	1/16W 15K J
	R458	VE-30012662	SMD R	1/16W 2.7K J
	R459	VE-30012510	SMD R	1/16W 100R J
	R460	VE-30012510	SMD R	1/16W 100R J
	R461	VE-30012510	SMD R	1/16W 100R J
	R463	VE-30012692	SMD R	1/16W 4.7K J
	R464	VE-30012650	SMD R	1/16W 15K J
	R465	VE-30012692	SMD R	1/16W 4.7K J
	R467	VE-30012641	SMD R	1/16W 10K J
	R468	VE-30012641	SMD R	1/16W 10K J
	R469	VE-30000670	CF R	1/4W 330K J
	R470	VE-30012683	SMD R	1/16W 330K J
	R474	VE-30012692	SMD R	1/16W 4.7K J
	R475	VE-30012510	SMD R	1/16W 100R J
	R476	VE-30012707	SMD R	1/16W 680R J
	R477	VE-30014022	SMD R	1/16W 47R J
	R502	VE-30012695	SMD R	1/16W 470R J
	R503	VE-30012707	SMD R	1/16W 680R J
	R504	VE-30012679	SMD R	1/16W 3.9K J
	R505	VE-30012673	SMD R	1/16W 270R J
	R506	VE-30012506	SMD R	1/16W 1.5K J
	R507	VE-30012657	SMD R	1/16W 1K J
	R508	VE-30000706	CF R	1/4W 47R J
	R509	VE-30012641	SMD R	1/16W 10K J
	R510	VE-30000622	CF R	1/4W 270R J
	R511	VE-30012657	SMD R	1/16W 1K J
	R512	VE-30012504	SMD R	1/16W 1.2K J

RESISTOR

⚠	Symbol No.	Part No.	Part Name	Description
	R513	VE-30000459	CF R	1/4W 100R J
	R514	VE-30000459	CF R	1/4W 100R J
	R515	VE-30012692	SMD R	1/16W 4.7K J
	R516	VE-30012692	SMD R	1/16W 4.7K J
	R517	VE-30012692	SMD R	1/16W 4.7K J
	R518	VE-30000471	CF R	1/4W 10K J
	R519	VE-30012698	SMD R	1/16W 5.6K J
	R525	VE-30000583	CF R	1/4W 220R J
	R526	VE-30012641	SMD R	1/16W 10K J
	R527	VE-30000718	CF R	1/4W 4.7K J
	R528	VE-30012698	SMD R	1/16W 5.6K J
	R530	VE-30012698	SMD R	1/16W 5.6K J
	R531	VE-30012692	SMD R	1/16W 4.7K J
	R532	VE-30012659	SMD R	1/16W 2.2K J
	R533	VE-30012644	SMD R	1/16W 12K J
	R534	VE-30000526	CF R	1/4W 1.5K J
	R535	VE-30000718	CF R	1/4W 4.7K J
	R536	VE-30000471	CF R	1/4W 10K J
	R537	VE-30012641	SMD R	1/16W 10K J
	R538	VE-30012698	SMD R	1/16W 5.6K J
	R539	VE-30012659	SMD R	1/16W 2.2K J
	R540	VE-30012644	SMD R	1/16W 12K J
	R545	VE-30012644	SMD R	1/16W 12K J
	R546	VE-30000560	CF R	1/4W 1.8K J
	R547	VE-30012659	SMD R	1/16W 2.2K J
	R548	VE-30012641	SMD R	1/16W 10K J
	R552	VE-30012692	SMD R	1/16W 4.7K J
	R555	VE-30012659	SMD R	1/16W 2.2K J
	R556	VE-30012657	SMD R	1/16W 1K J
	R559	VE-30000470	CF R	1/2W 10K J
	R560	VE-30012669	SMD R	1/16W 22K J
	R561	VE-30012692	SMD R	1/16W 4.7K J
	R562	VE-30000471	CF R	1/4W 10K J
	R564	VE-30012641	SMD R	1/16W 10K J
	R601	VE-30000477	CF R	1/4W 100K J
	R602	VE-30000536	CF R	1/4W 150K J
	R605	VE-30000504	CF R	1/4W 120K J
	R612	VE-30012692	SMD R	1/16W 4.7K J
	R613	VE-30012692	SMD R	1/16W 4.7K J
	R618	VE-30012662	SMD R	1/16W 2.7K J
	R619	VE-30012641	SMD R	1/16W 10K J
	R623	VE-30000607	CF R	1/4W 2.2R J
	R624	VE-30001161	MO R	2W 39R J
	R625	VE-30000900	MF R	1/4W 1.8K J
	R627	VE-30000910	MF R	1/2W 1.8R G
	R628	VE-30000650	CF R	1/4W 33R J
	R630	VE-30000828	CF R	1/4W 8.2M J
	R631	VE-30000885	MF R	1/4W 1.5K J
	R633	VE-30000706	CF R	1/4W 47R J
	R634	VE-30012641	SMD R	1/16W 10K J
	R637	VE-30000621	CF R	1/2W 270R J
	R638	VE-30000612	CF R	1/4W 2.4K J
	R639	VE-30000718	CF R	1/4W 4.7K J
	R640	VE-30012662	SMD R	1/16W 2.7K J
	R641	VE-30012649	SMD R	1/16W 150R J
	R645	VE-30016868	MO R	3W 2.2K J (RADIAL)
	R646	VE-30000500	CF R	1/4W 12K J
	R647	VE-30000466	CF R	1/4W 1K J
⚠	R648	VE-30001246	FUSE R	1W 0.47R J
	R649	VE-30000775	CF R	1/4W 6.8K J
	R650	VE-30000744	CF R	1/4W 560R J
	R654	VE-30000705	CF R	1/2W 47R J
	R655	VE-30000705	CF R	1/2W 47R J
	R657	VE-30012656	SMD R	1/16W 18K J
	R658	VE-30001161	MO R	2W 39R J
	R659	VE-30001123	MO R	2W 220R J
	R660	VE-30012669	SMD R	1/16W 22K J
	R661	VE-30012674	SMD R	1/16W 27K J
	R662	VE-30000712	CF R	1/4W 470R J
	R663	VE-30000459	CF R	1/4W 100R J
	R665	VE-30012708	SMD R	1/16W 68K J
	R701	VE-30000459	CF R	1/4W 100R J
	R703	VE-30000459	CF R	1/4W 100R J
	R705	VE-30000459	CF R	1/4W 100R J
	R715	VE-30012695	SMD R	1/16W 470R J
	R717	VE-30012695	SMD R	1/16W 470R J
	R719	VE-30012657	SMD R	1/16W 1K J
	R721	VE-30000459	CF R	1/4W 100R J
	R722	VE-30000459	CF R	1/4W 100R J
	R723	VE-30012510	SMD R	1/16W 100R J
	R724	VE-30012510	SMD R	1/16W 100R J
	R725	VE-30012657	SMD R	1/16W 1K J
	R726	VE-30012657	SMD R	1/16W 1K J
	R727	VE-30012657	SMD R	1/16W 1K J
	R728	VE-30012657	SMD R	1/16W 1K J
	R729	VE-30012657	SMD R	1/16W 1K J
	R730	VE-30012657	SMD R	1/16W 1K J
	R731	VE-30012657	SMD R	1/16W 1K J
	R801	VE-30000982	MF R	1/4W 4.7K J
	R803	VE-30012692	SMD R	1/16W 4.7K J
	R804	VE-30000504	CF R	1/4W 120K J
	R805	VE-30000843	MF R	1/4W 10R J
	R806	VE-30000982	MF R	1/4W 4.7K J

[AV-21KT1BPF/A / AV-21KT1SPF/A]

RESISTOR

⚠	Symbol No.	Part No.	Part Name	Description
	R807	VE-30001130	MO R	1/2W 0.22R J
	R809	VE-30007784	MO R	5W 33K J(RADIAL)
⚠	R810	VE-30001257	MG R	1/2W 4.7M J
	R811	VE-30000594	CF R	1/4W 22K J
	R813	VE-30000718	CF R	1/4W 4.7K J
	R814	VE-30012662	SMD R	1/16W 2.7K J
	R815	VE-30000452	CF R	1/4W 10R J
	R817	VE-30001037	MF R	1/4W 99K F
	R818	VE-30000925	MF R	1/4W 2.2K F
	R819	VE-30000810	CF R	1/4W 820R J
	R821	VE-30000470	CF R	1/2W 10K J
	R828	VE-30001260	WW R	5W 2.2R J RAD.
	R829	VE-30000718	CF R	1/4W 4.7K J
	R830	VE-30012657	SMD R	1/16W 1K J
	R831	VE-30012669	SMD R	1/16W 22K J
	R835	VE-30016802	WW R	5W 5.6R J RAD.
	R903	VE-30000886	MF R	1/4W 1.5K F
	R904	VE-30000886	MF R	1/4W 1.5K F
	R905	VE-30000886	MF R	1/4W 1.5K F
	R906	VE-30000525	CF R	1/2W 1.5K J
⚠	R919	VE-30001207	FUSE R	1/4W 10R J

CAPACITOR

	C141	VE-30000384	EL CAP.	2.2UF 50V M
	C142	VE-30000384	EL CAP.	2.2UF 50V M
	C143	VE-30012583	SMD CAP.	1.5NF 50V K
	C144	VE-30012583	SMD CAP.	1.5NF 50V K
	C145	VE-30012589	SMD CAP.	4.7NF 50V K
	C147	VE-30012583	SMD CAP.	1.5NF 50V K
	C148	VE-30012583	SMD CAP.	1.5NF 50V K
	C150	VE-30012589	SMD CAP.	4.7NF 50V K
	C155	VE-30012560	SMD CAP.	100PF 50V J
	C157	VE-30012560	SMD CAP.	100PF 50V J
	C159	VE-30012560	SMD CAP.	100PF 50V J
	C160	VE-30000387	EL CAP.	33UF 50V M
	C161	VE-30000362	EL CAP.	1UF 50V M
	C162	VE-30000362	EL CAP.	1UF 50V M
	C201	VE-30000400	EL CAP.	47UF 50V M
	C205	VE-30000371	EL CAP.	22UF 50V M
	C206	VE-30012610	SMD CAP.	10NF 50V J
	C207	VE-30012610	SMD CAP.	10NF 50V J
	C300	VE-30000400	EL CAP.	47UF 50V M
	C302	VE-30000092	MKT CAP.	220NF 63V J
	C305	VE-30000092	MKT CAP.	220NF 63V J
	C404	VE-30000225	CER CAP.	220PF 50V J SL
	C408	VE-30012586	SMD CAP.	22NF 50V K
	C409	VE-30000345	EL CAP.	10UF 50V M
	C410	VE-30000384	EL CAP.	2.2UF 50V M
	C411	VE-30000345	EL CAP.	10UF 50V M
	C412	VE-30012586	SMD CAP.	22NF 50V K
	C413	VE-30000362	EL CAP.	1UF 50V M
	C414	VE-30012585	SMD CAP.	2.2NF 50V K R
	C415	VE-30012581	SMD CAP.	1NF 50V K R
	C416	VE-30000362	EL CAP.	1UF 50V M
	C417	VE-30000362	EL CAP.	1UF 50V M
	C418	VE-30012586	SMD CAP.	22NF 50V K
	C419	VE-30000413	EL CAP.	4.7UF 50V M
	C420	VE-30000100	MKT CAP.	330NF 63V J
	C422	VE-30000400	EL CAP.	47UF 50V M
	C423	VE-30000400	EL CAP.	47UF 50V M
	C424	VE-30000345	EL CAP.	10UF 50V M
	C425	VE-30012586	SMD CAP.	22NF 50V K
	C426	VE-30016654	SMD CAP.	100NF 16V K R
	C427	VE-30016654	SMD CAP.	100NF 16V K R
	C429	VE-30012589	SMD CAP.	4.7NF 50V K
	C431	VE-30000362	EL CAP.	1UF 50V M
	C432	VE-30012586	SMD CAP.	22NF 50V K
	C433	VE-30000345	EL CAP.	10UF 50V M
	C434	VE-30016654	SMD CAP.	100NF 16V K R
	C435	VE-30016654	SMD CAP.	100NF 16V K R
	C436	VE-30000109	MKT CAP.	470NF 63V J
	C437	VE-30016654	SMD CAP.	100NF 16V K R
	C438	VE-30016654	SMD CAP.	100NF 16V K R
	C439	VE-30016654	SMD CAP.	100NF 16V K R
	C440	VE-30000074	MKT CAP.	100NF 63V J
	C441	VE-30012582	SMD CAP.	10NF 50V K R
	C442	VE-30000109	MKT CAP.	470NF 63V J
	C443	VE-30000362	EL CAP.	1UF 50V M
	C444	VE-30000384	EL CAP.	2.2UF 50V M
	C446	VE-30000345	EL CAP.	10UF 50V M
	C448	VE-30012586	SMD CAP.	22NF 50V K
	C449	VE-30012567	SMD CAP.	220PF 50V J
	C451	VE-30012589	SMD CAP.	4.7NF 50V K
	C452	VE-30012589	SMD CAP.	4.7NF 50V K
	C453	VE-30012581	SMD CAP.	1NF 50V K R
	C454	VE-30012573	SMD CAP.	47PF 50V J
	C455	VE-30012573	SMD CAP.	47PF 50V J
	C456	VE-30012573	SMD CAP.	47PF 50V J
	C459	VE-30012575	SMD CAP.	4.7PF 50V C CH
	C460	VE-30000345	EL CAP.	10UF 50V M
	C502	VE-30000396	EL CAP.	47UF 16V M
	C504	VE-30012586	SMD CAP.	22NF 50V K
	C505	VE-30012589	SMD CAP.	4.7NF 50V K
	C510	VE-30012586	SMD CAP.	22NF 50V K
	C511	VE-30012566	SMD CAP.	22PF 50V J
	C513	VE-30000371	EL CAP.	22UF 50V M

CAPACITOR

⚠	Symbol No.	Part No.	Part Name	Description
	C514	VE-30012586	SMD CAP.	22NF 50V K
	C515	VE-30012579	SMD CAP.	82PF 50V J
	C517	VE-30012586	SMD CAP.	22NF 50V K
	C518	VE-30012586	SMD CAP.	22NF 50V K
	C519	VE-30000352	EL CAP.	100UF 16V M
	C520	VE-30012560	SMD CAP.	100PF 50V J
	C521	VE-30012562	SMD CAP.	15PF 50V J
	C522	VE-30012562	SMD CAP.	15PF 50V J
	C523	VE-30012585	SMD CAP.	2.2NF 50V K R
	C525	VE-30012566	SMD CAP.	22PF 50V J
	C526	VE-30012586	SMD CAP.	22NF 50V K
	C530	VE-30012589	SMD CAP.	4.7NF 50V K
	C531	VE-30000384	EL CAP.	2.2UF 50V M
	C532	VE-30012586	SMD CAP.	22NF 50V K
	C536	VE-30000074	MKT CAP.	100NF 63V J
	C541	VE-30000109	MKT CAP.	470NF 63V J
	C542	VE-30000205	CER CAP.	150PF 50V J SL
	C543	VE-30000205	CER CAP.	150PF 50V J SL
	C545	VE-30012607	SMD CAP.	150PF 50V J
	C603	VE-30000384	EL CAP.	2.2UF 50V M
	C604	VE-30000345	EL CAP.	10UF 50V M
	C608	VE-30000107	MKT CAP.	47NF 250V J
	C610	VE-30000355	EL CAP.	100UF 50V M
	C611	VE-30000092	MKT CAP.	220NF 63V J
	C613	VE-30016085	EL CAP.	10UF 63V
	C615	VE-30000359	EL CAP.	1000UF 16V M
	C616	VE-30000352	EL CAP.	100UF 16V M
⚠	C618	VE-30000136	MKP CAP.	12NF 2000V %3.5
⚠	C619	VE-30000131	MKP CAP.	100NF 250V J
	C623	VE-30000404	EL CAP.	47UF 160V M (HR)
	C624	VE-30000350	EL CAP.	10UF 250V M
	C627	VE-30000154	MKP CAP.	390NF 250V J
	C628	VE-30018380	EL CAP.	3.3UF 160V M
	C631	VE-30000410	EL CAP.	470UF 50V M
	C632	VE-30000100	MKT CAP.	330NF 63V J
	C633	VE-30016085	EL CAP.	10UF 63V
	C634	VE-30000409	EL CAP.	470UF 25V M
	C635	VE-30000100	MKT CAP.	330NF 63V J
	C636	VE-30000387	EL CAP.	33UF 50V M
	C638	VE-30012581	SMD CAP.	1NF 50V K R
	C639	VE-30000433	CER CAP.	1NF 1KV M B
	C641	VE-30000345	EL CAP.	10UF 50V M
	C642	VE-30012609	SMD CAP.	68NF 50V K
	C643	VE-30000116	MKT CAP.	68NF 63V J
	C644	VE-30000362	EL CAP.	1UF 50V M
	C645	VE-30000352	EL CAP.	100UF 16V M
	C700	VE-30012565	SMD CAP.	1.8PF 50V J CH
	C701	VE-30012565	SMD CAP.	1.8PF 50V J CH
	C702	VE-30012573	SMD CAP.	47PF 50V J
	C703	VE-30012573	SMD CAP.	47PF 50V J
	C704	VE-30012576	SMD CAP.	56PF 50V J CH
	C705	VE-30000345	EL CAP.	10UF 50V M
	C706	VE-30000345	EL CAP.	10UF 50V M
	C707	VE-30012573	SMD CAP.	47PF 50V J
	C708	VE-30012586	SMD CAP.	22NF 50V K
	C710	VE-30012573	SMD CAP.	47PF 50V J
	C712	VE-30000345	EL CAP.	10UF 50V M
	C713	VE-30016654	SMD CAP.	100NF 16V K R
	C714	VE-30016654	SMD CAP.	100NF 16V K R
	C716	VE-30016654	SMD CAP.	100NF 16V K R
	C717	VE-30016654	SMD CAP.	100NF 16V K R
	C718	VE-30016654	SMD CAP.	100NF 16V K R
	C719	VE-30012586	SMD CAP.	22NF 50V K
	C720	VE-30000345	EL CAP.	10UF 50V M
	C721	VE-30016654	SMD CAP.	100NF 16V K R
	C723	VE-30016654	SMD CAP.	100NF 16V K R
	C724	VE-30000345	EL CAP.	10UF 50V M
	C729	VE-30016654	SMD CAP.	100NF 16V K R
	C730	VE-30000393	EL CAP.	3.3UF 50V M
	C733	VE-30000345	EL CAP.	10UF 50V M
	C734	VE-30000345	EL CAP.	10UF 50V M
	C735	VE-30012586	SMD CAP.	22NF 50V K
	C736	VE-30000345	EL CAP.	10UF 50V M
	C737	VE-30000371	EL CAP.	22UF 50V M
	C738	VE-30000371	EL CAP.	22UF 50V M
	C739	VE-30000371	EL CAP.	22UF 50V M
	C740	VE-30000371	EL CAP.	22UF 50V M
	C741	VE-30012585	SMD CAP.	2.2NF 50V K R
	C742	VE-30012585	SMD CAP.	2.2NF 50V K R
	C748	VE-30012560	SMD CAP.	100PF 50V J
⚠	C801	VE-30000094	MKT CAP.	220NF AC275V M
⚠	C802	VE-30000094	MKT CAP.	220NF AC275V M
⚠	C803	VE-30000433	CER CAP.	1NF 1KV M B
⚠	C804	VE-30000433	CER CAP.	1NF 1KV M B
	C808	VE-30000295	CER CAP.	100NF 50V Z F
	C809	VE-30000418	EL CAP.	100UF 400V M
	C810	VE-30000387	EL CAP.	33UF 50V M
	C811	VE-30000161	MKP CAP.	47NF 630V J
	C812	VE-30009208	CER CAP.	470PF 1KV K (PULSE)
	C813	VE-30000295	CER CAP.	100NF 50V Z F
⚠	C816	VE-30000447	CER CAP.	4.7NF 4KV M E
	C817	VE-30000198	CER CAP.	120PF 500V J SL
	C818	VE-30016654	SMD CAP.	100NF 16V K R
	C819	VE-30012609	SMD CAP.	68NF 50V K
	C822	VE-30007308	CER CAP.	220PF 1KV K (PULSE)
	C824	VE-30000433	CER CAP.	1NF 1KV M B
	C826	VE-30000404	EL CAP.	47UF 160V M (HR)
	C827	VE-30000411	EL CAP.	4700UF 16V M
	C828	VE-30000295	CER CAP.	100NF 50V Z F

[AV-21KT1BPF/A / AV-21KT1SPF/A]

⚠	Symbol No.	Part No.	Part Name	Description
	CAPACITOR			
	C829	VE-30000407	EL CAP.	470UF 16V M
	C830	VE-30000382	EL CAP.	2200UF 16V M
	C831	VE-30000431	CER CAP.	100PF 1KV M
	C832	VE-30000295	CER CAP.	100NF 50V Z F
	C833	VE-30000407	EL CAP.	470UF 16V M
	C834	VE-30000295	CER CAP.	100NF 50V Z F
	C836	VE-30000431	CER CAP.	100PF 1KV M
	C838	VE-30000352	EL CAP.	100UF 16V M
	C839	VE-30000352	EL CAP.	100UF 16V M
	C840	VE-30000352	EL CAP.	100UF 16V M
	C843	VE-30000431	CER CAP.	100PF 1KV M
	C848	VE-30000352	EL CAP.	100UF 16V M
	C849	VE-30000352	EL CAP.	100UF 16V M
	C850	VE-30000352	EL CAP.	100UF 16V M
	C855	VE-30000407	EL CAP.	470UF 16V M
	C856	VE-30007308	CER CAP.	220PF 1KV K (PULSE)
	C857	VE-30012573	SMD CAP.	47PF 50V J
	C858	VE-30007308	CER CAP.	220PF 1KV K (PULSE)
	C907	VE-30000434	CER CAP.	1NF 2KV K B
	C908	VE-30000415	EL CAP.	4.7UF 250V M
	C912	VE-30000075	MKT CAP.	100NF 250V K (DC)
	NOT	VE-30000367	EL CAP.	1UF 250V M
	X403	VE-30000074	MKT CAP.	100NF 63V J
	TRANSF			
⚠	TR601	VE-30017788	FB TRANSF.	
⚠	TR802	VE-30013683	SMPS TRANSF.	
	COIL			
	J282	VE-30001992	FIXED COIL	10UH
	L201	VE-30001979	FIXED COIL	1UH
	L402	VE-30001992	FIXED COIL	10UH
	L404	VE-30001990	FIXED COIL	6.8UH
	L405	VE-30014048	VIF ADJ COIL	44MHZ
	L407	VE-30002002	FIXED COIL	47UH
	L601	VE-30001990	FIXED COIL	6.8UH
	L603	VE-30002149	LINEARITY COIL	50UH (06-06A)
	L702	VE-30001996	FIXED COIL	22UH
	L703	VE-30001979	FIXED COIL	1UH
	L704	VE-30001979	FIXED COIL	1UH
	L803	VE-30001984	FIXED COIL	2.2UH
	L807	VE-30001992	FIXED COIL	10UH
	L808	VE-30002011	FIXED COIL	150UH
	L810	VE-30001992	FIXED COIL	10UH
	DIODE			
	D101	VE-30007760	SMD ZENER DIODE	
	D102	VE-30007760	SMD ZENER DIODE	
	D103	VE-30007760	SMD ZENER DIODE	
	D104	VE-30007762	SMD ZENER DIODE	
	D106	VE-30001377	UZT ZENER DIODE	33V
	D300	VE-30001285	SMD DIODE	
	D301	VE-30001285	SMD DIODE	
	D402	VE-30012411	SMD DIODE	
	D405	VE-30007763	SMD ZENER DIODE	
	D407	VE-30001284	DIODE	0.15A/100V 0.5A
	D408	VE-30001285	SMD DIODE	
	D409	VE-30007760	SMD ZENER DIODE	
	D410	VE-30007760	SMD ZENER DIODE	
	D411	VE-30007760	SMD ZENER DIODE	
	D501	VE-30001285	SMD DIODE	
	D505	VE-30001285	SMD DIODE	
	D506	VE-30001284	DIODE	0.15A/100V 0.5A
	D509	VE-30001279	LED(RED/GREEN)	
	D512	VE-30001285	SMD DIODE	
	D513	VE-30001339	ZENER DIODE	3.9V
	D602	VE-30001329	DIODE	1A/1000V 30A
	D603	VE-30001285	SMD DIODE	
	D608	VE-30001318	DIODE	1A/800V 20A
	D609	VE-30001318	DIODE	1A/800V 20A
	D610	VE-30001318	DIODE	1A/800V 20A
	D611	VE-30001285	SMD DIODE	
	D614	VE-30001318	DIODE	1A/800V 20A
	D615	VE-30001285	SMD DIODE	
	D616	VE-30009699	SMD ZENER DIODE	
	D619	VE-30009699	SMD ZENER DIODE	
	D700	VE-30001285	SMD DIODE	
	D701	VE-30001369	ZPD ZENER DIODE	3.6V
	D800	VE-30001318	DIODE	1A/800V 20A
	D801	VE-30001347	ZENER DIODE	8.2V
	D802	VE-30001318	DIODE	1A/800V 20A
	D803	VE-30001315	DIODE	1A/200V 20A
	D804	VE-30001285	SMD DIODE	
	D805	VE-30001315	DIODE	1A/200V 20A
	D806	VE-30001315	DIODE	1A/200V 20A
	D808	VE-30007681	DIODE	3A/800V 150A
	D809	VE-30001329	DIODE	1A/1000V 30A
	D810	VE-30009366	DIODE	3A/200V 150A
⚠	D811	VE-30001329	DIODE	1A/1000V 30A
	D812	VE-30001285	SMD DIODE	

⚠	Symbol No.	Part No.	Part Name	Description
	DIODE			
⚠	D813	VE-30001329	DIODE	1A/1000V 30A
⚠	D837	VE-30001329	DIODE	1A/1000V 30A
⚠	D838	VE-30001329	DIODE	1A/1000V 30A
	D890	VE-30001329	DIODE	1A/1000V 30A
	D900	VE-30001318	DIODE	1A/800V 20A
	D901	VE-30001318	DIODE	1A/800V 20A
	D902	VE-30001318	DIODE	1A/800V 20A
	D903	VE-30001344	ZENER DIODE	6.2V 1/2W
	TRANSISTOR			
	D889	VE-30001384	TRANSISTOR	
	Q104	VE-30001457	SMD TRANSISTOR	
	Q106	VE-30001457	SMD TRANSISTOR	
	Q141	VE-30001457	SMD TRANSISTOR	
	Q142	VE-30001457	SMD TRANSISTOR	
	Q301	VE-30001458	SMD TRANSISTOR	
	Q302	VE-30001457	SMD TRANSISTOR	
	Q402	VE-30001457	SMD TRANSISTOR	
	Q405	VE-30001457	SMD TRANSISTOR	
	Q406	VE-30001457	SMD TRANSISTOR	
	Q503	VE-30001457	SMD TRANSISTOR	
	Q504	VE-30001458	SMD TRANSISTOR	
	Q601	VE-30013656	POWER TRANSISTOR	
⚠	Q603	VE-30001448	TRANSISTOR	H.OUT
	Q604	VE-30001457	SMD TRANSISTOR	
	Q606	VE-30001457	SMD TRANSISTOR	
	Q700	VE-30001458	SMD TRANSISTOR	
	Q801	VE-30001385	TRANSISTOR	
	Q802	VE-30001457	SMD TRANSISTOR	
	Q804	VE-30001454	TRANSISTOR	
	IC			
	IC118	VE-30001506	I.C.	
	IC301	VE-30011874	I.C.	
	IC403	VE-30014510	I.C.	
	IC500	VE-20121164	I.C. (MEMORY)24C08 X39589110H10122104(JVC)	
	IC501	VE-20091454	I.C. (MICOM) PR.IC.3X-ST92195C 64K JVC30A34	
	IC502	VE-30001670	PREAMPLIFIER	
⚠	IC600	VE-30015306	I.C.	
	IC700	VE-30013658	I.C.	
	IC800	VE-30011968	I.C.	
⚠	IC801	VE-30015087	I.C.	
	IC803	VE-30001500	I.C.	
	IC804	VE-30001622	I.C.	
	IC806	VE-30014346	I.C.	
⚠	IC900	VE-30025172	I.C.	
	OTHERS			
⚠	F801	VE-30001731	FUSE	2.5A
	J281	VE-30006712	FERRITE BEAD	
	L101	VE-30001971	FERRITE BEAT	
	L102	VE-30001971	FERRITE BEAT	
	L103	VE-30001971	FERRITE BEAT	
	L106	VE-30001971	FERRITE BEAT	
	L107	VE-30001971	FERRITE BEAT	
	L108	VE-30001971	FERRITE BEAT	
	L109	VE-30001971	FERRITE BEAT	
	L110	VE-30001971	FERRITE BEAT	
	L111	VE-30001971	FERRITE BEAT	
	L112	VE-30001971	FERRITE BEAT	
	L113	VE-30001971	FERRITE BEAT	
	L114	VE-30001971	FERRITE BEAT	
	L115	VE-30001971	FERRITE BEAT	
	L210	VE-30001971	FERRITE BEAT	
	L211	VE-30001971	FERRITE BEAT	
	L401	VE-30001971	FERRITE BEAT	
	L403	VE-30001971	FERRITE BEAT	
	L406	VE-30001971	FERRITE BEAT	
	L604	VE-30001971	FERRITE BEAT	
	L700	VE-30001971	FERRITE BEAT	
	L701	VE-30001971	FERRITE BEAT	
	L802	VE-30001971	FERRITE BEAT	
	L805	VE-30001971	FERRITE BEAT	
	L806	VE-30001971	FERRITE BEAT	
	L809	VE-30001971	FERRITE BEAT	
⚠	PL903	VE-30001855	CRT SOCKET	
	R900	VE-30006712	FERRITE BEAD	
	R901	VE-30006712	FERRITE BEAD	
	R902	VE-30006712	FERRITE BEAD	
	SG900	VE-30000428	SPARK GAP	300V
	SG901	VE-30000428	SPARK GAP	300V
	SG902	VE-30000428	SPARK GAP	300V
	SW501	VE-30002178	TACT SWITCH	
	SW502	VE-30002178	TACT SWITCH	
	SW503	VE-30002178	TACT SWITCH	
	SW504	VE-30002178	TACT SWITCH	
	SW505	VE-30002178	TACT SWITCH	
⚠	SW801	VE-30017848	SWITCH(ON/OFF)	
	TH800	VE-30001270	PTC	9 OHM

[AV-21KT1BPF/A / AV-21KT1SPF/A]

⚠	Symbol No.	Part No.	Part Name	Description
	OTHERS			
⚠	TR801	VE-30002100	LINE FILTER	
⚠	TU201	VE-30009637	TUNER	
	X401	VE-30001749	XTAL	4.433619MHZ
	X402	VE-30015592	XTAL	3.579545MHZ
	X501	VE-30002851	XTAL	4MHZ
	X700	VE-30001756	XTAL	18.432MHZ
	Z401	VE-30012545	SAW FILTER	
	Z402	VE-30014261	SAW FILTER	
	Z404	VE-30001724	SER FILTER	5.5MHZ

■ FRONT AV PW BOARD ASSY (VE-20118322)

Refer to PARTS LIST in page 7 for this P. W. board.

■ HEADPHONE PW BOARD ASSY (VE-20100697)

Refer to PARTS LIST in page 7 for this P. W. board.

[AV-21KT1BPF/B / AV-21KT1SPF/B]

■ MAIN P.W. BOARD ASS'Y (VE-20129808)

Regarding the parts list for the main PW board ass'y VE-20129808, only the different parts from those of the VE-20121220 are described, For further details regarding the other parts, refer to the parts list for the VE-20121220 described on page 12 through page 14.

⚠	Symbol No.	Part No.		Part Name	Description
		VE-20121220 [CRT "A" type]	**VE-20129808** [CRT "B" type]		
	R602	VE-30000536	VE-30000513	CF R	1/4W 130K J
	R605	VE-30000504	VE-30000477	CF R	1/4W 100K J
	R624	VE-30001161	VE-30001120	MO R	2W 22R J
⚠	R648	VE-30001246	VE-30002828	FUSE R	1W 0.75R J
⚠	C618	VE-30000136	VE-30000174	MKP CAP	7.5NF 1600Vdc / 1250Vp

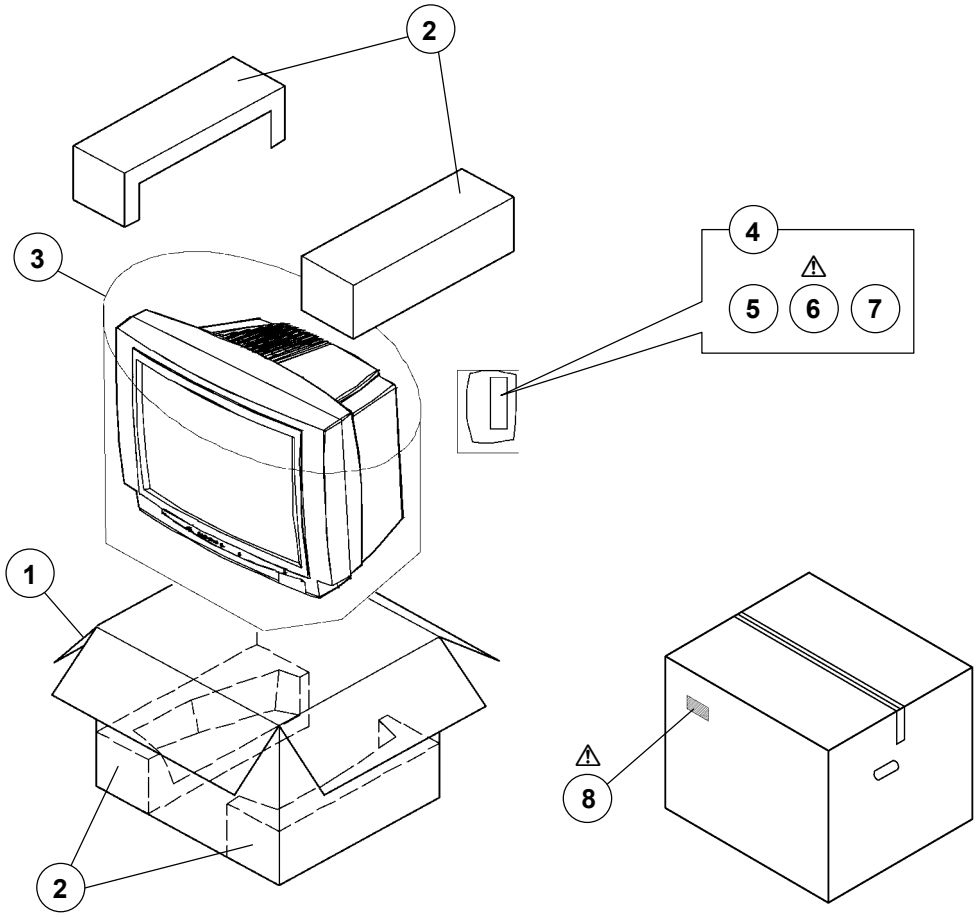
■ FRONT AV PW BOARD ASSY (VE-20118322)

Refer to PARTS LIST in page 7 for this P. W. board.

■ HEADPHONE PW BOARD ASSY (VE-20100697)

Refer to PARTS LIST in page 7 for this P. W. board.

PACKING



PACKING PARTS LIST

⚠	Ref.No.	Part No.	Part Name	Description
[AV-21KT1BEF, AV-21KT1BNF, AV-21KT1BPF : BLACK model]				
	1	VE-50036605	CARTON BOX	[AV-21KT1BEF]
	1	VE-50036586	CARTON BOX	[AV-21KT1BNF]
	1	VE-50036588	CARTON BOX	[AV-21KT1BPF]
	2	VE-20116664	SNOW BOX ASSY	4 pcs in 1 set
	3	VE-50030774	POLY BAG (1400*1000)	
	4	VE-70000587	POLY BAG	
	5	VE-30017763	REMOTE CONTROL UNIT	(RM-C1100)
⚠	6	VE-50036404	INST BOOK	[AV-21KT1BEF]
⚠	6	VE-50036402	INST BOOK	[AV-21KT1BNF]
⚠	6	VE-50036403	INST BOOK	[AV-21KT1BPF]
	7	BT-54013-2TK	WARRANTY CARD	
⚠	8	VE-20122445	LABEL	[AV-21KT1BEF]
⚠	8	VE-20122419	LABEL	[AV-21KT1BNF]
⚠	8	VE-20122423	LABEL	[AV-21KT1BPF]
[AV-21KT1SEF, AV-21KT1SNF, AV-21KT1SPF : SILVER model]				
	1	VE-50036607	CARTON BOX	[AV-21KT1SEF]
	1	VE-50036603	CARTON BOX	[AV-21KT1SNF]
	1	VE-50036590	CARTON BOX	[AV-21KT1SPF]
	2	VE-20116664	SNOW BOX ASSY	4 pcs in 1 set
	3	VE-50030774	POLY BAG (1400*1000)	
	4	VE-70000587	POLY BAG	
	5	VE-30017763	REMOTE CONTROL UNIT	(RM-C1100)
⚠	6	VE-50036404	INST BOOK	[AV-21KT1SEF]
⚠	6	VE-50036402	INST BOOK	[AV-21KT1SNF]
⚠	6	VE-50036403	INST BOOK	[AV-21KT1SPF]
	7	BT-54013-2TK	WARRANTY CARD	
⚠	8	VE-20122448	LABEL	[AV-21KT1SEF]
⚠	8	VE-20122431	LABEL	[AV-21KT1SNF]
⚠	8	VE-20122426	LABEL	[AV-21KT1SPF]